

# **Chemical Week**

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**Volume 92**

**January - June, 1963**

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	Superconducting columbium-zirconium alloy	Mar.	9	Cities Service-Tennessee Corp. merger delayed	Apr.	6	17	
	Union Carbide drops ferromolybdenum operations	May	25	Cities Service-Tennessee Corp. merger may be challenged	Mar.	2	23	
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Alumina	Alumina-from-clay process tested	Feb.	16	Copper case: Newmont will fight civil suit	June	8	19	
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	Markets are in trouble	May	4	Estes case: Texas readies ammonia antitrust suit	Jan.	12	23	
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Aluminum	Alumina-from-clay process	Feb.	2	10	Is antitrust un-American - Viewpoint	May	11	21
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	Aluminum granules for use as plastic fillers	May	4	Kefauver eyes Common Market antitrust rules	May	11	29	
	Continuous process for casting aluminum	Apr.	20	Martin Marietta will divest itself of 75 cement plants	Mar.	16	21	
	For aluminum, a new high in '62 - Business benchmarks	Feb.	2	Merger complaint against makers of ready-mixed concrete dismissed	June	1	54	
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	GSA still unable to sell off-grade aluminum GSA will make another attempt to sell off-grade aluminum	Apr.	4	Orrick, William H., Jr., will head Antitrust Division	May	25	71	
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	Stockpile sales are in the offing	May	11	Area Development - Arkansas River basin development program	Feb.	16	23	
	Aluminum chloride - Prices	Mar.	16	Argentina	Mar.	2	47	
	Aluminum sulfate - North American Coal shuts down plant	Apr.	13	Alliance for Progress prepares guarantee deal for petrochemical project	Mar.	2	26	
	American Assoc. of Textile Chemists and Colorists Dropped from IRS list of scientific organizations	Mar.	23	Full-guarantee agreement with U.S.	June	15	33	
American Chemical Society	Los Angeles meeting highlights	Apr.	6	Argon - Researchers feel it is impossible to make argon compounds	Mar.	23	77	
	Mining minerals from the sea discussed at Los Angeles meeting	Apr.	13	Arsenic - Amorphous arsenic	Mar.	2	47	
	Symposium on Organic Nuclear Reactor Coolant Technology (table)	Apr.	20	Atomic Energy Commission	Apr.	13	23	
American Institute of Biological Sciences - NSF funds for research projects misused	Feb.	2	Civilian nuclear power program (chart)	June	22	46		
American Institute of Chemical Engineers - 49th national meeting spotlights propylene and ethylene	Mar.	30	Nuclear Safety Information Center established					
Amides	New family of amides called 700 series	Feb.	23	Atomic Power				
Amines	Canadian fatty amines marketing race	Jan.	23	AEC pushes to put civilian nuclear power business into private hands (chart)	Apr.	13	23	
	New amines available in research quantities	Apr.	13	All-nuclear Navy planned	Apr.	20	38	
	Triple-bonded amine series includes propargylamine hydrochloride	Apr.	13	Canada considers four 405-megawatt reactors	Apr.	27	60	
	Aminobenzotrifluoride - Ortho and meta isomers of aminobenzotrifluoride	June	1	Canada weighs heavy water project, decision may have major impact on development of world nuclear power plants (table)	Jan.	19	52	
	3-aminopyridine - New process makes chemical in large quantities	Feb.	2	Canadian engineers scale up atom plant size, scale down power costs (charts)	June	8	31	
Ammonia	Autothermal process used by Frontier Cost-price squeeze intensifies, spurs drive for more efficient catalysts	Mar.	30	Canadian researchers eliminate fouling in reactors using organic coolants (table)	Apr.	20	65	
	Ester Bilite Sol, gets 15-year sentence; state relatives antitrust suit	Jan.	12	Nuclear-powered merchant ships in sight	Apr.	18	82	
	Odessa Natural Gasoline will build plant in Texas	Apr.	27	Periodic table for nuclear particles proposed	Jan.	12	67	
	Oversupply shapes up in Texas	June	8	Project Plowshare will gather data from series of small, chemical explosions	June	8	47	
	Ammonium citrate - Prices	June	29	Safety information center established by AEC	June	22	46	
	Ammonium persulfate - Printed circuit makers consider persulfate etchant	May	11					
	Ammonium thioglycolate - Prices	Jan.	26					
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**Australia**  
 Aluminum project planned by French company  
 Bauxite leases withdrawn  
 Foreign forecast - report (charts)  
 Petrochemical companies report losses

Mar. 2 33  
 June 1 32  
 Jan. 19 66  
 June 8 26

**Austria**  
 Antidumping legislation against Czech sales of carbide  
 Labor leaders oppose Austrian-Soviet bloc trade agreement  
 Polypropylene supply-demand picture  
 Slight production increases reported

Apr. 13 59  
 Jan. 12 57  
 Apr. 20 54  
 May 4 38

**Automotive**  
 Crisis in labor - report (chart & tables)  
 Gulf Oil closes loop on fluidized cat cracker at Philadelphia refinery  
 Labor Dept. report shows 35,000 jobs are lost each week to machines

Feb. 23 67  
 Mar. 30 50  
 Feb. 9 28

**Automobiles**  
 Autos accentuate the positive - Business benchmarks  
 Autos off to strong start - Business benchmarks  
 CSMA study shows drop in automotive specialty chemical product sales  
 Canadian firm develops device for motor vehicle crankcases  
 Leasing has record year in '62  
 Turbine engine problems reported  
 Turbine-powered cars pose problems for petrochemicals, additives - letter  
 Awards - CPI increases size of cash awards for idea-generating employees

Jan. 26 102  
 Apr. 13 98  
 May 25 151  
 Feb. 23 100  
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 May 18 19  
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June 29 29

**Researchers develop boron fiber**

Mar. 16 63  
 Mar. 23 66  
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**Braze Fluids**

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 June 15 61

Government-developed corrosion inhibitor

Mar. 23 66  
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June 15 91

**Brass - Mill product prices**

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**Brazil**

May 18 32  
 June 15 61

Nationalists concentrate fire on drug industry

Feb. 23 46  
 April 20 37

Rubber output rises

May 18 32  
 June 15 61

Wary U.S. chemical makers weigh Brazil's new plans

Feb. 23 46  
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**Bridges - Research into bridge deterioration through use of de-icing chemicals**

May 18 32  
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**Bromine**

Feb. 23 46  
 April 20 37

Great Lakes Chemical claims title to No. 2 spot in U.S. bromine business

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**Prices**

Feb. 2 68  
 June 1 122

Bromoacetyl bromide - New organic intermediate

June 22 73

Bryant, F. Leonard - Hooker Chemical's new chairman

June 15 24

**Bulgaria**

June 15 24

Builds first modern refinery at Kameno

June 8 20

Develops chemical industry

April 13 59

Butadiene - Phillips pulls out of Algerian venture

Jan. 5 24

1, 3-butylene dimethacrylate (BDMA) - New difunctional acrylic monomer

Feb. 2 42

## C

**Bactericides**  
 Biocides for slime, algae, and bacteria control  
 Liquid microbicide, Trojan CMP  
 Non-toxic fungicide and bactericide called Nitron  
**Baffles** Pumping baffle boosts fractionating column efficiency  
**Barbershops** Cash registers ring with over-the-counter specialties sales  
 Barbituric acid - Derivatives

**Barges**  
 Chemical barges chart deeper push into Southwest via complex of channels (map)  
 ICC inquiry into alumina rate exemption  
 Mechling and Hay merge  
 New barge designs should bring new speed to water transport  
 "Public costs" of barge transportation must be considered in rate disputes  
**Batteries** Emergency lighting unit features permanently sealed lead-acid battery  
 Baybakov, Nikolai - U.S.S.R. chemical chief  
 Bearings - Prime mover will use gas-lubricated bearings  
 Beer - Adsorters for beer stabilization  
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Jan. 19-25

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 Italian bill would ban benzene in solvent applications  
 Litol plant to upgrade coke-oven BTX - construction plans  
 Litol process to be used by Bethlehem Steel

May 18 72  
 June 29 48  
 May 4 55

**Beryllium**  
 Mincon seeks financing for processing plant in Colorado  
 Stockholder suit shakes United Technical Industries

U.S. gets third beryllium metal producer  
 Vitro wins clear title to deposits in Utah

**Beverages** Pepsi-Cola and Coca-Cola will test market dietetic drinks

**Binders**  
 Textile binder, Rhoplex K-3  
 Textile finish-binder, Polycryl 7-7-1

Biochemical fuel cell research (table)  
 Biological Sciences - U.S. publishes new journal, Russia plans expansion program

**Biosynthesis** Hydrocarbon fermentation research booms (tables) - letter

**Bisphenol** - Hooker licenses process to U.S. firm

**Bleaches** Chlorine-free liquid bleach called Care

Dry bleach brightens chlorinated cyanurate market outlook

**Bolivia** - Phosphate and nitrate fertilizer plant to be built at Oruro

**Bonding** Activated diffusion technique bonds tungsten to itself and to other materials

Cationic starch for use as fiber bonding agent

**Explosive cladding moves closer to commercialization**

Teflon bonding kits

Jan. 19-65

Boric acid - Technical and USP grade prices

Boronydrides - Tetraethylammonium (TEAB) and tetramethyl-ammonium (TMAB) compounds

Apr. 13 91

**Boron** Organo boron chemistry agreement between Shell and Purdue's Herbert Brown

May 18 64

**Cadmium**

May 11 30

Government sets minimum market price

May 11 70

Prices - Jan. 19-62, Mar. 2-61

Stockpile bill passes House Armed Services Subcommittee

Mar. 16 28

Stockpile bill sponsored by Rep.

Mar. 9 27

Brownfield

Stockpile sale - NAMF charges "Unconscionable profiteering"

May 18 72

Stockpile sale urged

Jan. 19 61

Stockpile sale will ease current shortage

Apr. 20 96

Calcination - Fluosilicon calcining system re-causticizes spent digester liquor

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Calcium citrate - Prices

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Calcium propionate - Prices

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Cameras - Recording camera measures contaminants in air

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Anti-American issue - Bedfellow - like it or not - Viewpoint

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Anti-Americanism may become issue in campaign

Jan. 26 27

Athabasca tar sands project outlined by Shell

Jan. 26 27

Atomic power costs are lowest yet in new reactor proposal (charts)

June 8 33

British American Oil takes over majority interest in Shawinigan Chemicals

Jan. 19 25

Drug patents under attack (table)

Mar. 23 49

Fertilizer industry headed for more expansion

May 18 72

Forecast for CPI in '63

Jan. 5 63

Fourth-ranking chemical company:

Canadian Chemical Co.

Heavy-water plant debate postponed

Heavy water project considered, decision may have major impact on development of world nuclear power plants (table)

Liberal government lays down hard tax line that will speed Canadianization of industries

June 19 25

Ontario Research Community under construction

Jan. 23 49

Pearson government calls for two-level taxes aiming at "Canadianization" of industry

May 18 72

Phosphoric acid project from native ores under intense study

Mar. 20 20

Political crisis: what it means to U.S. CPI

June 22 17

Polymer Corp. zeroes in on U.S. rubber market

Feb. 2 53

Sulfur, oil and gas import discussions with U.S.

June 29 18

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June 29 21

Ceramic microspheres containing yttrium-90 supplied to medical researchers for studies of internal radiation treatment of cancer

Jan. 5 46

"Hit-and-hide" virus research

May 4 26

PHS study of chemicals as possible cancer-causing agents

Apr. 6 35

Carbide - Carbide parts made from "850" grade carbide for use in ultrahigh pressure applications

Jan. 5 36

**Carbon**

June 26 92

Activated carbon combined with filter additive for use in coin-op cleaning equipment

Mar. 23 35

Carbon-14-tagged chemicals

Carbon is more fireproof than some refractory metals, under certain space conditions

Industrial carbon markets in Pacific Northwest

Jan. 5 60

New process slated for tryout in Texas

Feb. 23 99

Prices

May 25 152

Production and sales up in '62

June 1 142

**Carbon black**

June 1 142

New process slated for tryout in Texas

June 1 142

Prices

May 25 152

Production and sales up in '62

June 1 142

**Carbon dioxide - Aerosol propellant marketing agreement**

June 23 18

**Carbon tetrachloride - Production in '62**

June 23 18

**Carpets**

Polypropylene carpet lineup grows

Synthetic fibers roll up rug sales (charts)

Catalogs - Microfilmed equipment catalogs speed data searches in plants

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**Catalysts**

Catalyst cleaning process, Wet-X - separation process is key to technique

Ethylene oxide catalyst

Hydrocracking process gets first take

Hydrogen production - new catalyst, G-66, promises significant economies in hydro-

gen plants

Molecular sieve hydrocarbon catalyst with pore size between 6 and 15 angstroms

Sohio will test uranium catalyst

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**Cause**

Liquid caustic prices

More chlorine-caustic expansion (map)

New uses and growing markets keep pro-

ducers hopeful (table)

Mar. 16 75

**Cellophane**

Loses ground to newer films (charts & table)

Vinyl-copolymer-coated cellophane, "R-18"

June 29 58

**Cellulose**

Chemical wood cellulose prices

Cotton-seed cellulose ether reported by Russians

Cellulose acetate - Outlook: rosy (chart & tables)

Mar. 30 63

**Cement**

Antitrusts question Diamond and Alkali-Bessemer merger

Mar. 30 28

<b>Cleaners</b>							
Bacterial/enzyme cleaners	Feb.	9	50	Concrete - Natural draft cooling tower is silent salesman for concrete construction	May	11	33
Door-to-door selling of household cleaning agents	Feb.	16	45	<b>Construction</b>	June	15	80
Epoxy cleanser, N-37 Waterless Skin Cleaner	May	18	68	Bayer has tallest building in Germany	Apr.	27	87
Household cleaning agent: competition will intensify	Feb.	9	77	Construction pace quickens (charts & table)	Apr.	27	22
Industrial spray cleaner	Mar.	9	56	Contractor streamlines equipment procurement procedure	Feb.	16	51
Metal-cleaning solution, Neutra-Clean	Jan.	26	92	Field-erected metal building for use as warehouse, garage or workshop	Apr.	20	84
Nylon scouring pads	June	8	68	Plant construction rate soars overseas, slumps here (charts & table)	Jan.	19	55
Oven cleaner - ammonia-containing aerosol cleaner	Apr.	27	52	Plastic materials are gaining wide-scale acceptance	June	8	59
Split-Away cleans up oil spills on water	May	18	63	Polyvinyl chloride building panel makers seek best door into construction market - letter	Feb.	9	29
Synthetic-foam cylinder for cleaning pipes	Apr.	6	102	Russian building material, Arbitol, may be better than cement	Mar.	23	7
Synthetic resin remover; Polysol	June	15	52	Consumer Advisory Council - Endorses series of Administration proposals	Feb.	2	42
Tool cleaning system uses powerful automatic sprayers	Apr.	20	90	<b>Contract</b>	Mar.	30	28
Ultrasonic cleaning solutions	Jan.	26	92	Council for Chemical Education - Nonprofit organization moves ahead with plan to lure chemicals to World's Fair	Jan.	12	83
Closures - Aluminum T-bolt hinged closures	Mar.	2	41	Couplings - Pump coupling	Apr.	20	81
<b>Clothing</b>				<b>Crystallization</b>			
Lightweight protective clothing	Apr.	20	81	Freeze-concentration processes bid for new chemical separation jobs (table)	June	1	97
Safety fabric: fluorescent vinyl-nylon called Color-Guard	Mar.	2	41	Wet phosphoric acid process features crystallizer technique	June	1	98
<b>Coke</b>				<b>Cals</b>			
BCR will pilot new method of ridding flue gases of sulfur dioxide	Jan.	5	45	Drugmakers will not profit from Cuban prisoner ransom - setting the record straight - Viewpoint	Jan.	26	5
Char oil research - FMC progress report	Mar.	2	52	Prisoner trade underscores Red deficiencies in drug production	Jan.	5	23
Coal injection system for use in blast furnaces	Jan.	5	53	Refineries are in serious trouble; silver shortage reported	Feb.	9	27
Coke from noncooking coal project report	Mar.	9	61	Culture media	June	1	107
Coke from Western coal project abandoned	Apr.	13	69	<b>Curing</b>			
Gasoline from coal process, OCR contract; progress reports issued on other coal research projects	Apr.	13	69	Alkendic anhydride curing agent for epoxy resins	Mar.	23	35
Hydrogasification of coal to produce high-Btu gas was no 1 topic at American Gas Association meeting	May	25	113	Epoxy resin curing agent	Jan.	26	92
Ohio pipeline to be retired May 11-60	May	25	114	Resorcinol-phenol curing system	Apr.	27	55
Coalescing agent	Mar.	9	56	<b>Cyanuric acid</b>			
<b>Coatings</b>				Chlorinated cyanuric acid capacity boost	June	22	62
Ablative coatings are effective heat barriers	June	1	91	Dry bleach brightens chlorinated cyanurate market outlook	Mar.	2	63
Bakelite vinyl coating resin called VAGD	June	22	74	<b>Cyclic Compounds</b> - Plant for ringed eight- and 12-carbon-atom compounds will be built at Lake Charles, La.	June	1	92
Can-lining business: high-priority target for profit-minded resin research (table)	Feb.	2	62	Cyclohexylamine - Derivatives	June	1	107
Continuous machine for vacuum deposition of thin film circuits	Apr.	20	76	Cyclooctadecene - Latest candidate for third monomer in ethylene-propylene terpolymers	May	18	63
Cooperative research group aids middle-sized paintmakers	Feb.	23	123	<b>Czechoslovakia</b>			
Dip coating for electronic components, Ecocoat 36-D	Feb.	9	50	Chemical industry achieves '62 goals	Mar.	2	33
Electrodeposition of metals onto molded plastic parts - new technique	Apr.	6	69	Shopping for two dozen chemical plants	Mar.	16	42
Electrophoretic coating system	May	25	55				
Exterior epoxy coating called Acro-Lor	Apr.	27	50	<b>D</b>			
Fast photo resist	Feb.	9	50	<b>DDT</b>			
Fiber reinforcement of metals studied	June	29	47	Prices	Feb.	16	57
Foam vinyl plastisol for stripable packaging	Feb.	23	99	Prices up, demand close to domestic capacity	Jan.	26	86
Methoxychlor coated bags keep out bugs	Apr.	27	34	Decalcimator - Decal material, Decalar 957	Jan.	5	36
Nickel aluminide coating material	May	11	47	Defense Dept. - Report cards will score contractor performance	June	8	30
Paper coating latex, Dylex K-55	Feb.	23	94	<b>Defoamers</b>			
Polyethylene resins for high-speed extrusion coatings	Feb.	23	94	Silicone antifoam agents for food and industrial use	Mar.	23	66
Silicone release coating aims for PE-coated milk and juice container market	Jan.	5	64	Sonic generators tackle new chemical processing jobs	Jan.	19	31
Stainless steel razor blades are fluorocarbon coated	Apr.	27	59	Dehydrogenation - DDQ, new dehydrogenation agent	Feb.	2	66
Surface coatings: new developments	May	25	114	De-icing Chemicals - Contracts awarded for research into bridge deterioration through use of de-icing chemicals	Apr.	20	37
Tungsten coating by thermal decomposition of tungsten hexachloride	Jan.	26	83	Delaware - Losses appeal as corporate home sales spot	Mar.	16	52
Vinyl coating resin, Elvax 260	Mar.	2	42	Deodorants - Silica gel pellets for use as packaging desiccant	Mar.	9	42
Vinyl spray called Quelspray	June	15	52	<b>Detergents</b>			
<b>Cobalt</b>				Antipollution legislation - Reuss attacks	May	25	71
Cobalt-58 available	Mar.	9	55	Biodegradability evaluation is service of new company	Apr.	27	49
Pure cobalt powder	Mar.	2	41	Biodegradable detergent alkylate projects launched	June	15	23
<b>Coke</b>				Biodegradable detergent alkylates	June	15	80
Coke from noncooking coal project report	Mar.	9	61	Biodegradable detergent raw material to be produced by Monsanto	June	22	18
Western coals to coke project abandoned	Apr.	13	69	Biodegradable detergent: sodium alkane sulfonates	June	15	50
Colloids - New process uses electrical field to break oil-in-water colloidal suspensions	Apr.	20	72	Cationic detergent fights detergent foam	May	25	113
<b>Color</b>				Federal judge okays Lever acquisition of Monsanto's "all"	May	11	21
Additive safety test extensions granted	Jan.	19	30	German firm will use Itolex process to make compounds for a biodegradable detergent	May	25	34
Glass stains produce amber colors	May	18	68	Industrial detergent in flake form	May	4	69
<b>Compressors</b>				Laboratory detergent	Apr.	6	101
Prime mover will use gas-lubricated bearings	Apr.	27	64	Legislation by state - roundup (table)	June	15	91
Water-lubricated centrifugal compressor offers safety, cuts costs	Jan.	12	64	Nonbiodegradable detergents will be illegal in Miami after '64	May	11	70
<b>Computers</b>				P&G makes its pitch in Europe (table)	May	30	70
Computers cut costs of destructive testing for rocket propellant maker	Apr.	27	66	Romanian fatty acids process hints at new route to synthetic detergents	Apr.	6	64
Distribution of gas by computer pays off	Apr.	27	33	Sales set new first-quarter high	June	22	70
Gulf Oil closes loop on fluidized cat cracker at Philadelphia refinery	Mar.	30	50	Sales set another record	Feb.	23	130
H610 process-control computer systems are first to use silicon semiconductors	Jan.	26	91	Sulfur-per-syndet processes vie for detergent makers attention	June	29	51
Instrument system measures performance of flow-control equipment	June	22	46	Wisconsin group supports hard detergents	May	18	71
Japanese ethylene plant comes under computer control	June	22	49	<b>Diamines</b>			
Low-cost computer control system	June	29	47	Four new diamines for pharmaceutical use	Jan.	26	91
Management looks for ways to improve on-stream process analyzers (table)	June	1	113	Mine new dimer diamines	Mar.	23	77
Management turns to computers to help make decisions (table)	Feb.	16	33	Dichlorobenzene - Prices	Mar.	16	71
Mobilized computer control system	Feb.	9	67	Dielectric powders	May	18	68
Process designs by nail - GIFS service aids computer engineer (table)	Mar.	16	59	Dimethyl sulfide (DMSO) - Wood pulp producer looks to novel digestion process that uses DMSO	Jan.	5	52
Simulation technique lets management test proposed decisions on a computer	Feb.	16	34	Dimethyl terephthalate - Terephthalic acid challenges DMT as intermediate for polyester fiber and films	Mar.	9	58
Unit operations simulation program for engineering design	Mar.	9	62	Diphenolic acid - Prices	May	18	71
Concentration - Freeze-concentration processes bid for new chemical separation jobs (table)	June	1	97	Diphenyl oxide - Derivatives	Jan.	5	35
				Diphenyldodecyl phosphate - Prices	Mar.	30	59
				Diphenylnaphthalene disocyanate - Prices	June	1	121
				Disinfectants - Lysol disinfectant in spray form	Mar.	23	36
				Dispersants - Latex system dispersant	Feb.	23	94
				Distillation - Pumping baffle boosts fractionating column efficiency	June	1	102
				<b>Distribution</b>			
				Computer moves gas	Apr.	27	33

"Creative transportation managers" — goal of new college training program	June 8 52	Kennedy will seek aid on piecemeal basis, medical-school bill will be first	Apr. 13 30	Ethers — Perfluoro polyaromatic ethers are not suitable for fire-resistant hydraulic fluids	Apr. 27 60
Drug producers revamp distribution systems	Mar. 30 31	Survey pinpoints research personnel shortages	Jan. 26 77	Ethylenes	
Product development teams offered by West Coast distributor	June 29 68	Egypt — Nasser nationalizes all but three of the pharmaceutical producers in Egypt	June 29 21	Delayed construction plans brighten ethylene outlook (chart & tables)	Apr. 13 83
Polyvinyl chloride building panel makers turn to distributors to market their products	Feb. 9 29	Elastomers	Feb. 9 68	Japanese plant comes under computer control	May 18 75
A target for cost cutting — Viewpoint	Mar. 2 5	Dunlop Rubber and Montecatini will swap elastomeric polymer patents	Feb. 2 66	Market forecast by AECI	June 22 49
Truck leasing — an attempt to cut distribution costs (chart)	June 29 65	Nitrile polymer, Chemigum N625X	Jan. 5 36	Prices are slipping on Gulf Coast	Mar. 30 68
Drawing compound	June 15 52	Polybutadiene elastomer, Plioflex 5000	Mar. 9 77	Ethylene oxide — New catalyst cuts costs	Mar. 9 71
Driers — British-made naphthenic-type paint dries price cut — Viewpoint Mar. 16-71	Mar. 30 60	Synthetic elastomer developments: acrylic rubber; urethane elastomer	June 1 121		June 15 79
Drilling Mud — Dry sulfuric acid absorbed in Micro-Cel E used in oil well drilling mud	Jan. 5-45	Urethane elastomers market	Jan. 12 47	Ethylenimines	
Drugs	Jan. 12 71	Electronics — New compounds broaden markets for semi-conductors (table)	Mar. 2 33	Dow goes commercial	June 22 50
Advisory commission on narcotic and drug abuse created	Jan. 26 32	El Salvador — Government regulations affect sale of pharmaceuticals	Apr. 6 102	Dow moves into field, Chemirad boosts emphasis on marketing	June 29 23
Animal health products market forecast	May 25 152	Emulsifiers — Polyethylene wax emulsifier	Mar. 2 33	N-Ethylmorpholine — Prices	May 11 70
Antiradiation drugs — 48 synthesized compounds are being tested	Feb. 2 32	Emulsions	Apr. 6 102	Europe	
Baxter aims for higher earnings by boosting direct sales	Jan. 19 26	European marketing of Pol-Em polyethylene emulsions	June 15 98	CW's foreign editor visits European offices — Behind the news	June 22 5
Blood-pressure depressant, Eutonyl	Mar. 23 35	Nonionic polyethylene emulsion	Apr. 27 55	The Common Market's still there — Viewpoint	Feb. 9 5
Brazilian nationalists concentrate fire on drug companies	May 18 32	Polyethylene emulsion	Jan. 26 92	EEC study group recommends integrated pipeline network to distribute North African and European natural gas	Feb. 23 54
Canadian proposal to remove patent protection	Mar. 2 17	Polyvinyl acetate homopolymer emulsion	May 25 114	Eastern European bloc (Comecon) aims at specialization of chemical industry	Mar. 2 34
Cold vaccine research by five British organizations	Mar. 16 64	Enamel	Mar. 23 36	Foreign forecast — report (charts)	Jan. 19 66
Cuban prisoners ransom contributions won't benefit drugmakers. Setting the record straight — Viewpoint	Jan. 26 5	Low-luster interior enamel	Apr. 27 56	Imperial Chemical Industries readies for a fight — report (map)	June 15 62
Cuban prisoner trade underscores Red deficiencies in drug production	Jan. 5 23	Porcelain enamel additive	Mar. 2 51	Ketauer eyes Common Market antitrust rules	Mar. 16 23
Digestion helpers: Mr. Enzyme and Prandium	Mar. 23 36	Encapsulation	June 29 43	Procter & Gamble solids in Common Market (table)	Mar. 30 70
Discounters curbed in North Dakota	Apr. 27 34	Archer Daniels Midland's process geared to large-scale production	June 22 50	Rejection of Britain throws Common Market into turmoil (table)	Feb. 9 20
FDA's final rules disappoint most drug makers	June 29 22	National Lead shows off commercial plant for in-situ polymerization of ethylene on cellulose fibers	Mar. 2 51	Unilever seeks EEC role	May 18 30
FDA grants leeway for drug testing plans	June 15 34	Polyethylene-encapsulated cellulose products plant startup	June 8 48	U.S. polyethylene exports to Common Market in '62	Mar. 2 17
FDA groans under burden of new drug controls	May 18 77	Engineering	Mar. 9 62	Western European chemical output	Mar. 23 56
FDA practices under new attack	Mar. 30 28	Computer service, GIFS, promises fast action — by mail or phone — on process design calculations (table)	Mar. 16 59	Evaporation	
FDA reorganizes to enforce new drug sales	Jan. 12 24	Equipment purchasing is speeded by contractor's new paperwork plan	Feb. 16 51	Aliphatic alcohols slow evaporation	May 4 56
FDA rules for drugmakers' R&D and testing — Dimension	June 22 54	Monsanto separates research and engineering functions	June 8 48	Freezing rivals evaporation for concentration jobs (table)	June 1 97
FDA's final rules for labeling and advertising still are to come	May 11 30	Overseas buildup by U.S. engineering firms (chart & tables)	May 11 51	Explosions	
Italy's proposed drug patent law draws U.S. interest	May 11 20	Struthers revises policies on engineering fees for crystallization processing and equipment	Mar. 9 62	Dow's Plaquemine, La., complex damaged	Apr. 13 19
Ketauer plans new inquiry into practices of U.S. companies	June 29 27	Struthers Scientific International puts premium on flexibility	Feb. 23 135	Naico's TEL-TML plant at Freeport, Tex., damaged	Feb. 9 77
Kennedy's health message	Feb. 16 29	Technology export test generates hot legal battle	Mar. 9 22	Project Plowshare will gather data from series of small, chemical explosions	June 8 47
Legislation by states — roundup (table)	June 15 91	Touring engineers will sell anodic corrosion control systems for plants still in design stage	Mar. 30 44	Explosives	
Medicated lotion called Demathera	Apr. 27 52	Unit operations simulation program for engineering design	Mar. 9 62	Chemical men attack export barriers, seek 'dumping' curb (table)	May 4 22
Mental health proposals get rousing send-off in Senate	June 8 30	Engineers Joint Council — Engineering Manpower Commission issues statistical report	June 8 37	Freight-rate differentials injure U.S. exporters	June 1 53
New York puts embargo on urinary tract drug called Renacidin	June 22 30	Engines	June 1 107	China embargo criticized — Slow boat to China — Viewpoint	May 18 5
Olin charged with concealing kickbacks in drug sales involving U.S. foreign aid funds	Mar. 16 36	Expansion engine	June 22 44	Common Market moves into U.S. markets — letter	Jan. 5 7
PMA calls for closer ties between government and industry	Patents may be killed in Canada, threat grows in other countries too (table) — letter	Fire-fighting by jet engine	Mar. 16 63	Industry meetings on export-import problems planned by BDSA	Feb. 23 61
Patents	Feb. 2 24	Enzymes	Mar. 23 36	Japan imposes quota system on battery exports	Apr. 6 51
Pharmacy cases	Mar. 23 49	Digestion helpers: Mr. Enzyme and Prandium Enzyme process for cheesemaking	Feb. 16 57	Japanese aluminum makers form export cartel	Mar. 16 20
Cancilarach and Fine plead guilty	Apr. 13 10	Orally administered enzymes enter the bloodstream in an active form, according to experimental evidence	Jan. 19 51	Japanese fertilizer exports	Mar. 25 95
Grace pleads guilty; Frank Delaney observes case as friend of Visconti	Jan. 5 24	Partial laboratory synthesis of ribonuclease has been achieved	Mar. 30 50	Technology export test generates hot legal battle	Mar. 9 22
Producers revamp distribution systems	Mar. 30 31	Epichlorohydrin — Epoxides: new entry in rubber (table)	May 18 39	U.S. exports for '62 — final tally (tables)	Feb. 23 42
Research and development feels first impact of new government controls	June 22 53	Epoxydation	Mar. 16 63	West German exports up	Apr. 27 75
Rohm & Haas branches out in pharmaceuticals	May 25 53	Continuous epoxidation process uses concentrated aqueous peracetic acid	Apr. 6 55	F	
Sales and earnings up '62, FDA rules make '63 outlook darker (table)	Apr. 20 21	Peracid processes put new pep into epoxidation (chart & table)	Apr. 4 12	Fabric Softeners — Final Touch Introduced in East	Apr. 27 52
Sales forecast	Mar. 9 28	Equipment	Feb. 16 51	Fatty acids	
Thalidomide hearings	Apr. 27 40	Contractor streamlines equipment procurement procedures — letter	Mar. 2 7	Aliphatic ester sulfate called Emkatex AES	Jan. 19 65
Vaccines — trachoma vaccine clinical trial results reported by Navy	Jan. 5 46	Corrosion protector	Mar. 23 36	Nine new dimer diamines	Mar. 23 77
Drums — Polyethylene-lined nonreturnable drum launched (table)	Jan. 19 35	Electric heating system cuts costs of tracing process piping and equipment	June 1 115	Prices	Feb. 2 58
Dryers — Air dryer	Apr. 20 84	Electrical equipment for hydrogen service	Jan. 5 35	Rumanian process converts paraffin waxes into fatty acids	Apr. 6 64
Drying — Direct-radiant-heating method for drying paper	June 8 48	Field-erected metal building for use as warehouse, garage or workshop	Apr. 20 84	Tall oil fatty acid faces supply-demand pinch (chart & tables)	May 25 157
Dunn, Parker S. — American Potash & Chemical picks a president	May 18 20	Hinged closure	Mar. 2 41	Tall oil outlook	Feb. 2 58
Durene — Forecast: cloudy future	Feb. 23 129	Index of new equipment orders Jan. 12-88, Feb. 23-164, Mar. 30-76, May 18-88, Inspection unit detects flaws in metals	June 29 74	Federal Trade Commission — Voluntary compliance plan considered	Mar. 23 39
Durham University — Kings College — J.B. Thomson invents water desalting process	June 22 49	Microfilmed equipment catalog speeds data searches in plants	Feb. 23 93	Feeders — Dry feeder	May 11 47
Dyes	May 4 69	Navy finds best way to prevent corrosion in stored machinery is to control warehouse humidity	Apr. 13 92	Foods	
Auramine dye	Jan. 5 36	Plastic lined plant equipment costs, savings pinpointed	June 8 48	Additive called Nidrafur	Mar. 23 36
Bright-blue dye, Waxoline Blue 2RS, for plastics	Apr. 13 91	Shakeup in equipment business narrows selection of vendors to CPI	Mar. 23 42	New process converts rice hulls into feed and fertilizer	June 15 83
Carriers for polyester fibers called Cindye Du Pont enters reactive dyestuff field through Germany's Hoechst	Feb. 16 47	Smith, A.O., drops high-pressure equipment line	Mar. 16 67	Fermentation — Hydrocarbon fermentation research boom (tables) — letter	Feb. 2 49
Fiber-reactive dyes called Cavalite	June 15 52	Stainless steel ball floats	Feb. 2 24	Ferrodoxin — University of California researchers clarify chemical's role in photo-synthesis	Feb. 23 7
Fixative for dyed textiles	May 25 44	Struthers Wells' operations will show loss for '62	Apr. 20 81	Ferric chloride — Prices	Apr. 25 152
Leveling agent, Atolene NR	Apr. 13 91	200 Series stainless steel cuts equipment costs 20%	Feb. 23 156		
Petroleum dyes	Apr. 20 84	Esters	May 11 38		
Polyester fiber dyes	Mar. 2 42	Aliphatic ester sulfate called Emkatex AES Phosphate ester surfactants: growing strong (tables)	Jan. 19 65		
Polypropylene dye research leads to spate of new products (table)	Apr. 13 33	Etching	Feb. 9 71		
Polypropylene dyeing process from Reeves	Mar. 23 77	Aerosol etcher	Mar. 2 42		
Polypropylene dyestuffs	May 4 69	Ammonium persulfate etchant for printed circuit boards	Jan. 26 25		
Polypropylene fiber dyeing problems solved	June 15 79				
Reactive dyestuffs	May 18 68				
Rock dyeing process	May 25 44				

## E

**Education**  
CPI seeks cure for 'technological obsolescence' of scientists and engineers | (chart)  
Kennedy's federal aid to education program

Mar. 2 66  
Feb. 9 27

Landscape and Nitro-glae fertilizers from tobacco stems - test marketing	Apr. 6	90	Grace reports on sales and earnings	Mar. 23	17	Final rules for drug labeling, advertising	May 11	30
Montana phosphate fertilizer project gets go ahead	Jan. 5	22	Kennedy's '64 budget proposal Jan. 12-27, '63 business is off to a fast start	Jan. 26	31	still are to come	May 10	77
Oil companies' proposed mergers change industry lineup	June 15	22	Olin and Indiana Standard outline chemical development plans	Mar. 16	21	Groans under burden of new drug controls	June 22	30
Planting tablet, Blue Chip, fertilizes tree, bush or vine without burning roots	Apr. 27	50	Price woes affect profit picture (charts)	June 8	21	Issues warning on urinary tract drug called		
Potassium metaphosphate fertilizer process	Feb. 4	25	Profits vs. costs - letter	Apr. 20	24	Renacidin		
Rice hulls converted into fertilizer and feed	June 15	83	Public relations budgets discussed by	Apr. 20	10	Kelsey, Frances, will head team for screening new drug applications; date for issuance of new drug regulations has not been set	Jan. 5	18
Sales off to fast start in '63 (tables)	Apr. 20	101	MCA's Hull - Viewpoint	June 29	5	Nestor, John, attacks agency regulations	Mar. 30	28
Slurry fertilizers may be next big trend in fertilizer distribution	Jan. 19	61	Reichhold snaps out of '61 slump	Feb. 16	24	New drug rules debut	Jan. 12	24
Swapping fertilizers is growing trend	Apr. 6	73	Sales and earnings - financial trends for 92 companies (table)	Apr. 6	24	Plans for closer ties with drug industry	Feb. 2	24
TVA steps up research on fertilizer products and uses	Jan. 12	24	Sales and earnings - new peaks in '62 (table)	Feb. 2	21	Poor showing reflects drug industry's difficulties in living with new rules	June 22	53
Fibers			Sales and earnings - profits won't keep pace in first quarter (charts & table)	Feb. 23	7	Posts revised new-drug regulations	June 29	22
Acrylic acrylic fiber promotion twist	Jan. 19	37	Sales and earnings - roundup of '62 reports (table)	May 4	21	Third batch of drug rules up for approval	Apr. 20	21
Acrylic-content elastomeric fiber called Orlifil	May 25	53	Small research and development business failures due to lack of business orientation	Mar. 9	21	Formaldehyde		
Bonus fiber developed	Mar. 16	63	Space budgets due for a boost in fiscal '64	June 29	28	Canadian companies build own plants to avoid long freight hauls	June 22	62
British man-made fiber production hits all time high	May 11	28	Stock offering planned by Wallace & Tieman and Smith Kline & French	Jan. 5	17	Capacity boost in Northwest	Feb. 9	77
Fiber reinforcement of metals studied	June 29	47	Struthers Wells' operations will show loss for '62	Feb. 2	24	Fence		
Japan-Red China synthetic fiber deals	May 25	90	A target for cost cutting - Viewpoint	Mar. 2	5	Coal and iron miners' strike spreads to Lac natural gas fields	Mar. 23	56
Japanese output up	Feb. 2	46	Tax credit reform gets industry vote as way to hyphen plant investment (table)	Apr. 27	36	Foreign forecast - report (charts)	Jan. 19	66
Nylon-6 promotion campaign	June 8	55	Tennessee Gas Transmission proposes de-bouture offering	June 8	20	Glassmaker rides crest of European building and motorizing boom	May 25	86
Polyester fiber patent fracas in Germany	Apr. 6	23	UOP's capital stock under selling pressure	Feb. 16	20	Monaco loses tax-free status	Mar. 2	33
Polyester fibers move on fire-cord markets (table)	Feb. 9	83	Universal Oil Products' '62 report	May 25	34	Strike shakes French chemicals	Apr. 6	41
Polyester fiber prices (table)	June 1	122	Virginia-Carolina's recapitalization plan - stockholder suit dismissed	Mar. 9	18	Freight Rates		
Polypropylene carpet lineup grows	Feb. 16	57	Witco outlines growth plans	Apr. 13	26	Airline rates for monkeys rejected by CAB	June 22	30
Polypropylene dye research pays off in spite of new products (table)	Apr. 13	33	Finishes			Barge-rail bulk rate dispute - Supreme Court ruling	Apr. 20	18
Polypropylene fiber dying problem solved	June 15	79	Textile finish, Rhoplex K-3	Feb. 23	94	Bulk commodity definition will not be changed	June 8	29
Polypropylene fiber makers push carpet and knitwear sales	June 1	122	Textile finish, Zepel, is stain-resistant	Jan. 12	71	Bulk commodity rate exemption sought for aluminum	Feb. 16	30
Polypropylene fibers go commercial in hosiery and sweaters	June 8	24	Fire-fighting - English group uses jet-engine blast to extinguish fires	June 22	44	CPI weighs controversial transportation bill	Apr. 13	74
Polypropylene fibers in three new colors	June 22	74	Fire Retardants			Freight rates		
Rohm & Haas branches out in synthetic fibers	May 25	53	Dechlorane gets big push in ethylene-chloroform rubber	Feb. 16	48	Airline rates for monkeys rejected by CAB	June 22	30
Spandex urethane elastic fibers from Rohm & Haas	Apr. 27	72	Flame-resistant acrylic-modified polyester	Mar. 9	62	Barge-rail bulk rate dispute - Supreme Court ruling	Apr. 20	18
Synthetic fibers roll up rug sales (charts)	June 29	61	Plastics and foams get built-in fire protection	Feb. 23	105	Bulk commodity definition will not be changed	June 8	29
Terephthalic acid route to polyester fibers and films	Mar. 9	58	Specialty chemical, Diablo 700X, can be compounded into liquid, resinous and rubber systems	Apr. 20	84	Bulk commodity rate exemption sought for aluminum	Feb. 16	30
Fillers			Fires - Flash fire delays startup of phthalic anhydride plant, Perth Amboy, N.J.	Feb. 9	77	CPI weighs controversial transportation bill	Apr. 13	74
Aluminum granules for use as plastic fillers	May 4	69	Fittings - NLRB ruling sparks use of molded insulation for pipe fittings	Apr. 6	81	Freight rates		
Barrel and drum filler	Mar. 2	41	Flavors			Airline rates for monkeys rejected by CAB	June 22	30
Volumetric filler	Feb. 9	49	Mertaste, new flavoring agent	May 4	69	Barge-rail bulk rate dispute - Supreme Court ruling	Apr. 20	18
Film - Color film that processes in 50 seconds will debut in Florida	Jan. 26	86	New competition shapes up in flavor and fragrances business	May 25	99	Bulk commodity definition will not be changed	June 8	29
Filters			Floating - Stainless steel ball floats	Apr. 20	81	Bulk commodity rate exemption sought for aluminum	Feb. 16	30
Activated carbon combined with filter additive for use in coin-op cleaning equipment	Jan. 26	92	Flocculants			CPI weighs controversial transportation bill	Apr. 13	74
Compressed-air filter	June 22	74	Coagulant aids called PrimaFloc	Jan. 26	92	Freight rates		
Disposable paper filter - letter	Feb. 23	7	Coagulant aid, O'B-Floc	June 1	108	Airline rates for monkeys rejected by CAB	June 22	30
Dust filter	Mar. 9	55	Floor finishing - Buff-and-spray system for polishing floors	June 1	108	Barge-rail bulk rate dispute - Supreme Court ruling	Apr. 20	18
Komline-Sanderson forms filter department	Apr. 27	56	Florida Southern College - New terpenoid called Limonene	June 22	73	Bulk commodity definition will not be changed	June 8	29
Micron filter	Mar. 9	55	Flotation - Potash beneficiation method permits working of mixed ores - sylvanite and langbeinite	Apr. 20	76	Bulk commodity rate exemption sought for aluminum	Feb. 16	30
Teflon filter cloth	Jan. 5	35	Flow promoter	Apr. 27	55	CPI weighs controversial transportation bill	Apr. 13	74
Financial			Flowmeters			Freight rates		
Abbott increases earnings in '62, sees new gains in '63	Mar. 16	24	Computing totalizer for turbine flowmeters	Feb. 2	66	Airline rates for monkeys rejected by CAB	June 22	30
Aerojet's growth plan puts new accent on chemicals	Feb. 16	23	Mass flowmeter gets okay for custody transfer	Apr. 13	94	Barge-rail bulk rate dispute - Supreme Court ruling	Apr. 20	18
Annual meetings - roundup Apr. 20-23, May 25-25	June 1	28	Fluorinated ethylene propylene - Resin demand starts to climb (chart)	Feb. 2	59	Bulk commodity definition will not be changed	June 8	29
Baldwin-Montrose sets finances in order	Feb. 16	24	Fluorine - German researchers use electrolytic discharge to prepare compound of xenon and fluorine	Jan. 12	62	Bulk commodity rate exemption sought for aluminum	Feb. 16	30
Business Council discusses tax cuts and vigor of U.S. economy	June 29	24	Fluorocarbons			CPI weighs controversial transportation bill	Apr. 13	74
Business Council members forecast good year	May 18	17	Fluoroketones: family of new chemicals bids for jobs	Mar. 2	47	Freight rates		
Bazars switches to Chapter 10 Bankruptcy Act proceedings	May 25	71	Refrigerant markets are in turmoil	May 4	63	Airline rates for monkeys rejected by CAB	June 22	30
Cabot Corp. reveals its finances	Feb. 9	18	Resin demand is climbing (chart)	Feb. 2	59	Barge-rail bulk rate dispute - Supreme Court ruling	Apr. 20	18
Capital spending plans by primary nonferrous metals industry	Mar. 30	24	Solvent prices	May 11	69	Bulk commodity definition will not be changed	June 8	29
Capital spending rises toward new record (charts & table)	June 22	18	Fluoroketones: family of new chemicals bids for jobs	Mar. 2	47	Bulk commodity rate exemption sought for aluminum	Feb. 16	30
Capital spending up trend reported by Commerce Dept.	Apr. 27	22	Fluxes			CPI weighs controversial transportation bill	Apr. 13	74
Collier Carbon plots course for improved earnings	June 15	18	Dustless flux for use in melting and refining magnesium	Jan. 26	92	Freight rates		
Commerce Dept. predicts better year for CPI	Feb. 2	17	Water-soluble flux	May 18	68	Airline rates for monkeys rejected by CAB	June 22	30
Depreciation allowances study by AEF	Jan. 12	17	Foams			Barge-rail bulk rate dispute - Supreme Court ruling	Apr. 20	18
Dividends up in March	Apr. 27	18	Expanded Royalite, a foamed plastic, will vie with reinforced polyester plastics	May 11	24	Bulk commodity definition will not be changed	June 8	29
Dividends up in '62	Feb. 2	18	Flame retardants for plastics and foams are targets of volley of research activity	Feb. 23	105	Bulk commodity rate exemption sought for aluminum	Feb. 16	30
Dixons Chemical gets financial help from Olin Matheson	Jan. 12	23	Gun-spraying semigrid urethane foam - new system	Jan. 12	62	CPI weighs controversial transportation bill	Apr. 13	74
Dixons Chemical recaptialization plan moves ahead	Feb. 9	17	Patent covers use of fluorocarbon blowing agents in urethane foams	Mar. 16	23	Freight rates		
Dixons Chemical's refinancing plan completed	Apr. 6	17	Polyether-urethane foam patent - licensing policy and royalty fees set	June 29	47	Airline rates for monkeys rejected by CAB	June 22	30
Drug industry sales and earnings: both up in '62 (table)	Apr. 20	20	Portable system makes foamed urethanes	June 8	47	Barge-rail bulk rate dispute - Supreme Court ruling	Apr. 20	18
Drugmakers report sales and earnings	Apr. 27	24	Urethane foam expansion joints	Feb. 9	50	Bulk commodity definition will not be changed	June 8	29
Economic nationalism rears its head in Egypt and Canada	June 29	21	Urethane foam industry growth prospects bright	Apr. 6	89	Bulk commodity rate exemption sought for aluminum	Feb. 16	30
Ethyl counts on cash flow for diversification into plastics	May 18	23	Food Chemicals			CPI weighs controversial transportation bill	Apr. 13	74
Federal funds for research projects "mis-use" case may lead to better accounting of funds	Feb. 2	31	Legislation by states - roundup (table)	June 15	91	Freight rates		
Forecast for next five to seven years issued by Commerce Dept.	June 15	34	Meat-aging process uses Thiamnidium	June 22	50	Airline rates for monkeys rejected by CAB	June 22	30
Forecast for next five years: fast growth (chart)	Apr. 20	25	Foods - Freeze concentration processes bid for food industry jobs (table)	June 1	97	Barge-rail bulk rate dispute - Supreme Court ruling	Apr. 20	18
Foreign aid funds cut virtually certain	Apr. 6	35	Food & Drug Administration			Bulk commodity definition will not be changed	June 8	29
Freeport Sulphur uses "loose" cash for acquisitions	June 15	17	Congress may approve increase in staff but cut funds	May 4	25	Bulk commodity rate exemption sought for aluminum	Feb. 16	30
GAF makes first presentation before financial analysts - letter	Jan. 26	25				CPI weighs controversial transportation bill	Apr. 13	74
GAF's fast-growth formula (chart)	Feb. 16	6				Freight rates		
Government-owned corporation to encourage private U.S. investment in developing nations - BCIU proposal	Mar. 23	20				Airline rates for monkeys rejected by CAB	June 22	30
Mar. 16	41					Barge-rail bulk rate dispute - Supreme Court ruling	Apr. 20	18

Polyram controls infections of potatoes	June	1	108
Semperwin, a natural fungicide in redwood trees, isolated at University of California	Apr.	6	70
<b>Furnaces</b>			
Coal injection system replaces coke in blast furnaces	Jan.	5	53
Controlled-atmosphere furnace	Mar.	23	35
Vacuum furnace	May	4	70

**G**

Gallium arsenide - New semiconductors vie for jobs (table) Jan. 12 47

**Garden Chemicals**

Far thinner market? - letter  
Heritage House pushes prestige in garden chemicals  
Lawn-care service bucks do-it-yourself trend, ties in with fuel oil dealers  
Planting tablet, Blue Chip, fertilizes tree, bush or vine without burning roots

June 15 5  
Feb. 23 121  
Apr. 27 47  
Apr. 27 50

**Gas**

BCR will pilot new method of ridding flue gases of sulfur dioxide  
Carbon-14 radioactive gases  
Computerized distribution pays off  
Octafluoropropane for use as gaseous dielectric  
Reinforced-plastic scrubbers  
Samples called Auto-Scanner

Jan. 5 45  
Apr. 27 55  
Apr. 27 33  
May 25 43  
June 22 73  
June 29 39  
Mar. 23 36

**Gasoline**

Additive, Nopco GA  
Canadian antiknock additive tariff hike request - opposition  
Gasoline from coal process - OCR contract

Feb. 9 50  
Jan. 5 60  
Apr. 13 69

**Gauges**

Density gauge  
Electronic vacuum gauge  
Oxygen gauge  
Vacuum gauge

Feb. 23 93  
June 1 107  
June 1 107  
June 15 51

**Generators**

Magneto-hydrodynamic generator has been coupled with a superconducting magnet  
Sonic generators tackle new chemical processing jobs  
"Unipolar" generator sold to Mallinckrodt for continuous production of direct-current power

Jan. 19 52  
Jan. 19 31

George Washington University - Seventh Annual Public Conference of the Patent, Trademark and Copyright Foundation

June 29 32

**Germany**

Antidumping tariff on Japanese ferromanganese and ferrochromium  
Bayer builds country's tallest building  
"Big Three" issue financial reports  
Britain sizes up productivity in West Germany  
Foreign forecast - report (charts)  
Labor relations improvement forecast as result of metal workers' strike settlement  
Plastics exports  
Wage contracts  
Wages may be pushed up another 8-9% in '63  
West German exports and imports up  
West Germany's trade pact with Poland

Mar. 9 37  
Apr. 27 87  
Apr. 27 84  
Mar. 23 25  
Jan. 19 66  
May 25 79  
June 8 26  
May 4 38  
Feb. 23 52  
Apr. 27 75  
Apr. 2 33  
Mar. 9 56

**Glass**

Break-resistant glass called Miraglass  
Competition changes in glass (chart)  
Float-glass plant to be built in Italy  
Float-glass process licensed to Libbey-Owens Ford  
French glass giant is disappointed with U.S. venture  
Glass propping agent for hydraulic fracturing  
Glass spheres for use as reflectorized road signs

May 18 63  
Mar. 16 25  
May 18 64  
May 11 60  
May 25 86  
June 22 49  
June 15 52  
May 18 68

Glass stain series  
New developments: glass that colors when exposed to electron beams; glass ceramic materials; glass resins; hot-glass rights for electrostatic printing process  
Nonprofit research foundation and FMC establish glass technology laboratory  
Glass Fibers - Fibrous Products gets big payoff from small glass plant  
Glucosamine - 36 new derivatives available

June 1 91  
Jan. 5 41  
Jan. 5 68  
Jan. 12 43

**Glue**

Glue sniffing legislation delay in New York  
States move to curb glue sniffing  
Glutamic acid - Hungarian process uses ion-exchange system to make glutamic acid  
wheat from wheat gluten  
Gutaraldehyde bis-sodium bisulfite - Gelatin-hardening agent

June 8 63  
Apr. 13 77  
Mar. 2 57  
Feb. 9 49

**Glycerin**

Market prospects improving  
Worldwide shortage shapes up; U.S. exports start to climb  
Gold - Producers prospect for new markets (chart)

Feb. 16 58  
June 8 59  
Jan. 19 58

**Graphic**

Graphite cloth in tape form  
Price reductions on high-purity graphite anodes

June 29 39  
Jan. 12 67

**Great Britain**

Antibiotic price cuts  
Antidumping duties imposed on phthalic anhydride imports from France and Switzerland  
British Petroleum's chemical slate grows (table)  
Drug production, exports, research spending up in '62  
Drug safety committee established  
Formenter forecast - report (charts)  
Imperial Chemical Industries readies for a fight - report (map)  
Junior executives salary survey  
Makes strong bid for Russian business  
Manufacture fiber production hits all-time high  
Monopolies Commission will investigate household detergents supply situation  
Petrochemical feedstock demand up  
Plastics production in '62  
Rejection of Britain throws Common Market into turmoil (table)  
Relaxes controls on materials in trade with Soviet bloc and Communist China  
Sizes up chemical productivity in West Germany and Italy  
Sulfuric acid producers defend cooperative buying pool  
Sulfuric acid production  
Survey of production, exports, capital spending for 13 companies  
Greece - Phosphoric acid project

June 15 97  
Feb. 9 37  
May 25 85  
May 18 37  
Apr. 20 54  
Jan. 19 66  
June 15 62  
May 4 38  
Apr. 27 82  
May 11 28  
June 1 32  
June 1 138  
Feb. 16 26  
Feb. 9 20  
Apr. 20 54  
Mar. 23 25  
May 18 37  
June 1 32  
Feb. 2 46  
June 1 32  
Mar. 9 61  
June 22 5  
June 22 41  
Apr. 27 55

**Postemergent herbicides for control of grassy weeds in turf and cotton and noncrop areas**

Pre-emergence spray for grasses and weeds in tomato, pepper and tobacco crops  
Hose - Glass-tempered rubber hose  
Household program to keep industry in the corral (table)  
Hungary - Mergers chemical plants  
Hydraulic Fluids - Perfluoro polyaromatic ethers are not suitable for fire-resistant hydraulic fluids  
Hydrogen - U.S. Rubber will become third U.S. producer

Mar. 23 36  
Apr. 27 52  
Jan. 12 43  
Apr. 6 28  
Apr. 6 51  
Apr. 27 60  
June 1 30  
Feb. 2 49  
Jan. 26 37

**Hydrocarbons**

Fermentation processes feed on low-cost hydrocarbon raw materials (tables)  
Molecular sieves score big gains in hydrocarbon separation jobs (chart)

Feb. 2 41  
Mar. 30 50  
May 25 113  
Mar. 9 27  
May 11 54

**Hydrogen**

Catalyst, G-66, promises significant economies in hydrogen plants  
Fuel cell operates on by-product hydrogen  
Hydrogasification of coal to produce high-Btu gas - three-part program  
NASA plans liquid hydrogen plant in Gulf Coast area  
Steam-naphtha reforming process reaches commercial status

Feb. 2 41  
Mar. 30 50  
May 25 113  
Mar. 9 27  
May 11 54

**Hydrochloride**

Chlorine recovery from by-product hydrogen chloride gets new look - letter  
Electrolytic and catalytic processes make chlorine from hydrogen chloride

Apr. 13 63  
May 10 7  
Mar. 30 49

**Hydrogen peroxide**

Pfizer will distribute 35% peroxide for use in cheesemaking  
Prices

Feb. 16 57  
May 25 152

**I****Imports**

Acrylic staple filter is not being dumped in U.S.  
"Buy American" policy worries importers  
Chemical men seek "dumping" curb (table)  
Chlorinated solvents outlook (charts)  
Common Market moves into U.S. markets - letter

June 15 98  
June 15 33  
May 4 22  
Jan. 5 61

**Fertilizer**

India liberalizes import policy  
Industry meetings on export-import problems planned by BDPA

Feb. 23 61  
Apr. 13 55

**Manganese and chromium**

Ferroalloy producers seek import quotas  
Japan - light money restricted chemical imports (chart)

June 8 60  
Mar. 9 28  
Feb. 23 62

**Stainless steel**

Imports flood U.S. market  
Steel sheet dumping charges against Japan

Mar. 30 18

**Steel wire rod**

Imports investigation by Tariff Commission  
Trade Adjustment Assistance Provision to test by April  
U.S. imports by 1962 - final tally (tables)  
Vanilla imports probe by U.S. Feb. 16-58  
West German imports up  
Indazole intermediates

June 8 29  
Feb. 23 42  
Mar. 30 60  
Apr. 27 75  
June 15 51

**Indexing**

Indexing - STAR abstracting and indexing service covers unpublished international aerospace literature, IAA covers published literature

Jan. 26 83

**India**

AID grants "commodity loan"  
Crisis gives impetus to chemical industry buildup - letter

Mar. 9 37  
Feb. 16 16  
Mar. 23 56

**Fertilizer**

Import negotiations  
Financial problems delay salt and sodium sulfate project; potassium muriate plants under construction

June 22 37  
Feb. 2 46

**Five-year plan**

French report arouses India's interest in petrochemicals  
Import policy liberalized

May 11 28  
May 11 28  
Apr. 27 75

**Imports**

Urrea and ammonia plants from Japan  
Investment outlook good despite tax proposals

Apr. 6 46

**Loses share**

of U.S. lac and shellac market to Thailand

May 4 38  
Mar. 23 40  
June 8 26

**Nuclear power**

reactor negotiations with U.S.

Sulfuric acid project

**Indium phosphide**

- injection laser uses

indium phosphide

**Industry Developments**

Aerojet's growth plan puts new accent on chemicals  
Alcan Chemical's diversification program

Amoco-Visocose, FMC accept antitrust challenge

American Viscose-FMC, Cities Service - Tennessee Corp. mergers - Justice Dept. decisions may be near

American Viscose-FMC merger delayed

American Viscose-FMC merger - F.M. Halt says merger is "proceeding toward conclusion"

American Viscose-FMC merger - opposition affidavits

American Viscose-FMC merger postponed at Justice Dept. request

American Viscose-FMC merger still under study at Justice Dept.

**H**

Hair Colorants - Stroke & Comb washes out with each shampoo  
Hammond, William B., Jr. - CW salesman invents grinder - Behind the news

Havighorst, Carl - New man on Western scene - Behind the news

Hawaii - Fast-growing fifth has high hopes for chemicals (table) - letter

Mar. 2 56

Heat Exchangers - Price increases likely  
Heat-sink compound

June 1 98

Heat Transfer - Organization set up to study process heat transfer - letter

Mar. 19 5

Heating  
Direct-radiant-heating method for drying paper

June 8 48

Induction heating - new standard units back its bid for process jobs

Apr. 27 63

On-site central heating and air-conditioning systems from Uni-Plant

Feb. 23 154

Heavy water  
Available at relatively low concentration  
Canada postpones debate until after April elections

Feb. 2 66

Canadian heavy water project, decision may have major impact on development of world nuclear power plants (table)

Feb. 16 57

Canadian project might start prior to war  
Novel process uses electrical field to break oil-in-water colloidal suspensions

Mar. 23 101

Helium  
Conservation program criticized by GAO

Jan. 19 26

Conservation program: four companies refuse to modify contract terms

Jan. 26 23

New projects may be piecemealed due to dispute over payment terms

Feb. 16 21

**Herbicides**

Combined herbicide for weed control of cotton

Feb. 23 94

Lambsquarter weed killer called Lambast

Mar. 9 56

New weed killers introduced at New York meeting

Jan. 19 51

Norbomyl urea herbicide called Herban

Apr. 20 81

Pesticides - report Oscar Johnson & others (charts & tables)

June 1 55

American Viscose-FMC merger - stockholders will vote at annual meeting	Apr. 6	17	Standard Oil of Ohio looks for chemical acquisitions	Apr. 27	25	Cellular thermoplastic insulation process - letter	Jan. 19	7
Argentina-U.S. guarantee agreement	June 15	33	Stein, Hall pushes into chemical-making ventures	Jan. 5	65	NLRB ruling sparks use of molded insulation for pipe fittings	Apr. 6	81
Baldwin-Montrose plans program of new products, steady expansion	Feb. 16	24	Turkey takes first step in chemicals (table & map)	Jan. 26	57	Synthetic insulators for high-voltage transmission lines undergo field tests	May 18	63
Bonneville stockholder takes further legal measures to block sale	Feb. 23	36	Unilever seeks EEC role	May 18	30			
Bonneville stockholders vote to accept Standard Magnesium offer	Feb. 16	19	U.S. companies push ahead slowly on overseas petrochemical projects	Jan. 5	24	Insurance		
Bonneville's stockholder feud is still red hot	Jan. 12	22	U.S. Steel and Phillips Petroleum acquire stock in customers	Apr. 20	23	CPI companies rewrite policies, put emphasis on high deductible provisions	Mar. 16	47
- letter	Feb. 2	10	Velsicol Chemicals picks up big chunk of Michigan Chemical	Jan. 12	18	'Key man' insurance finds new favor with smaller CPI firms	May 18	75
British: prospects brighten for foreign investors	Feb. 23	46	Witco outlines growth plans	Apr. 13	26			
Britain studies productivity in West Germany and Italy	Mar. 23	25	Information Retrieval			Intermediates		
British American Oil takes over majority interest in Shawinigan Chemicals	Jan. 19	25	Documentation Inc. takes on job of abstracting unpublished aerospace literature, processing cancer-screening data	Jan. 26	83	Cyclic intermediates outlook is good	Mar. 16	78
Bromine know-how pays off for Great Lakes Chemical	Feb. 23	35	Heat-developed film focuses on vast data-storage market	June 1	125	Fire retardant intermediates research booms	Feb. 23	105
Business news is encouraging	Mar. 2	20	Houston scientific and technical information center planned	Mar. 16	64	H acid prices	Mar. 9	72
Canada's political crisis: what it means to U.S.	June 22	17	National Referral Center for Science and Technology set up in Washington	Mar. 16	28	Imine and chloride intermediates	Apr. 27	55
Canadian proposals aim at curbing control of domestic companies by U.S. firms	Feb. 16	23	Solid-state data center	Mar. 9	84	Indazole intermediates	June 15	51
Canadians fear that anti-Americanism may become issue in campaign	Capital spending surges toward new peaks (charts & table)	Apr. 27	Infrared detector	May 11	47	Organic intermediate, amino HMI	Apr. 6	101
Carpet diversifies into chemical industry	Mar. 30	23	Inhibitors			Terephthalic acid challenges DMT as intermediate for polyester fiber and films	Mar. 9	58
Central America moves toward new prominence in U.S. CPI thinking	Mar. 30	56	Combination scale and corrosion inhibitor for potable water supplies	May 4	69			
Central American Common Market launches "integrated factories" idea (map)	Mar. 9	31	Corrosion inhibitor for brake fluids	Mar. 23	66	Ion Exchange		
Chemical industry ranks first in new foreign business activity	June 29	24	Fast-drying marking ink, Alkamatic Low-bake, silk screen ink for glass	Feb. 23	94	Antibiotics refining process - Russian report	Mar. 2	56
China spotlights chemical industry	May 4	27	Newspaper color ink, Top Set promises brighter, clearer color reproduction - letter	June 22	74	Cellulose ion exchangers	Mar. 18	67
Chrysler shifts into high on chemicals (table)	Mar. 9	39	Printing ink resin, Polymid 1144	Mar. 23	61	Hungarian glutamic acid process uses ion exchange system	Mar. 2	57
Cities Service acquisition of Tennessee Corp. completed	June 22	17	Printing ink sales roll up records - letters	June 8	16	Ireland - Nitrogenous fertilizer plant proposed	Feb. 2	46
Cities Service-Tennessee Corp. merger may violate antitrust laws	Mar. 2	23	Inorganic Chemicals - Alfa Inorganics will make pure and guaranteed inorganics for research purposes	Apr. 6	101			
Conoco increases holdings in Carlton Products	Jan. 5	22	Insecticides			Israel		
Continental OII-American Agricultural Chemical merger proposed	May 4	23	American cockroach sex lure pinpointed Carson, Rachel, "Silent Spring" controversy - CBS looks at pesticides - Viewpoint - letter	Jan. 12	61	Latin American investment group may build synthetic rubber plant near Haifa	Jan. 5	25
Cuban prisoner trade underscores Red deficiencies in drug production	Jan. 5	23	Legislation by states - roundup (table)	June 29	7	Phosphate deposits discovered in Arad	Apr. 13	59
Diversification report shows outsiders swarming into chemical industry - letters Jan. 26-6	Feb. 16	6	Lindane insecticide prices	May 11	42			
Eastern European bloc (Comecon) - chemical industry development plans	Mar. 2	34	Malathion pesticide prices	June 15	90	Italy		
Economic nationalism rears its head in Egypt and Canada	June 29	21	Methoxychlor coated bags keep out bugs	Jan. 5	60	Britain sizes up productivity in Italy	Mar. 23	25
Electric Bond wants to buy out co-owner of Escambia Chemical	Feb. 23	44	Microbial insecticide, Thuricide 90T Flowable	Apr. 27	34	Communists gain in election, country loses lustre for U.S. investors	May 25	77
Europe - rejection of Britain throws Common Market into turmoil (table)	Feb. 9	20	Milicide called Monocide approved for use on apples and pears	May 25	43	Foreign forecast - report (charts)	Jan. 19	66
Financial trends for '92 chemical companies (table)	Apr. 6	24	Organic carbamate insecticide - new formulations	Mar. 23	35	Synthetic fiber output	Mar. 9	37
Forecast for next five years: fast growth (chart)	Apr. 20	25	Pesticides - report Oscar Johnson & others (charts & tables)	May 11	60			
Forecast to year 2000 (table)	Apr. 6	26	Pl. 1. Insecticides, nematicides, rodenticides	May 25	117	Japan		
Forecast - year 2000 - report (charts)	Apr. 13	86	Pl. 2. Fungicides and herbicides	June 1	55	Aluminum makers form export cartel	Mar. 16	20
Foreign forecast - report (charts)	Jan. 19	66	Pyrethrum promotional push is tied to "Silent Spring" safety pitch (map) - letter	May 18	50	Ammonium sulfate and urea exports	Mar. 25	95
GAF's fast-growth formula (chart)	Mar. 23	20	Researchers spotlight safer insect control: bait toxicants, sex-lure chemosteroids - letters Feb. 23-7	June 15	5	CED recommends dismantling of barriers to imports of goods and foreign capital	Apr. 20	37
Government-owned corporation to encourage private U.S. investment in developing nations - BCIU proposal	Mar. 16	41	Senate hearing starts, Cabinet members back Wiesner report	Feb. 9	5	Export goals	June 1	32
Hercules will emphasize hard sell in U.S. and growing overseas markets	Jan. 26	26	Senate investigation can do a service - No political football, please - Viewpoint	June 1	29	Fertilizer export deal with Red China	Jan. 26	53
Italy loses luster for U.S. Investors	May 25	77	Senate probe to get under way, White House report delayed	Apr. 27	5	Fiber output up	Feb. 2	46
Japan lowers bars against foreign financial participation (chart & table)	Apr. 13	55	Trade groups set up committee to guide industry on pesticides problems	May 18	26	Follows International Monetary Fund recommendation, moves toward freer foreign exchange	Mar. 2	36
Japan - outliers for chemical industry brightens (chart & table)	Apr. 27	77	White House report - Launching pad for debate - Viewpoint	June 22	25	Foreign forecast - report (charts)	Jan. 19	66
Japan will loosen foreign exchange	Mar. 2	36	White House report puts chemicals on the spot (table)	May 25	5	Lowers barriers against foreign financial participation (chart)	Apr. 13	55
Japanese company will build polystyrene plant at Hazelton, Pa.	Mar. 16	20	White House report to be followed by Congressional probe on pesticide use	May 25	54	Organic chemicals export target	Mar. 30	58
Joint ventures, acquisitions, mergers - roundup	Apr. 13	26	Institute of Aerospace Sciences - IAA abstracting service covers published aerospace literature	Apr. 27	24	Outlook brightens as country takes brake off economy (charts & table)	Apr. 27	77
Latin American expansions by S.C. Johnson Mergers: American Viscose-FMC; Hess Oil - Delhi-Taylor; United Carbon-Ashland Oil - letter	Feb. 16	45	K					
Midwest governors pitch for new chemical constituents	Feb. 2	23	Petrochemicals at Tokuyama	May 18	37			
Olin and Indiana Standard outline chemical development plans	Mar. 2	7	Petroleum prices are firming	Mar. 2	61			
Overseas buildup by U.S. engineering firms (chart & tables)	Jan. 5	56	Phthalic anhydride supply low	Feb. 18	26			
Overseas operations should be integral part of corporate entity - Be a global thinker - letter	May 11	51	Polyvinyl chloride shortage develops	June 8	59			
Pittsburgh Plate Glass accelerates growth in chemicals	May 4	5	Quota system for battery exports	Apr. 6	51			
Poland puts chemicals on top (map)	June 29	7	Synthetic fiber makers benefit from trade deals with Red China	May 25	90			
Procter & Gamble makes it pitch in Europe (table)	Feb. 23	44	Urea inventory diminishing	Mar. 16	42			
Profitability plateau reported in FTC-SEC survey	Apr. 13	51	Vinylon plant negotiations with Red China	June 8	26			
Russia names new commissar for chemical industry	Mar. 30	70	Japan Petrochemical Industry Assn. - Polyethylene production plans	Feb. 16	26			
Russia outlines chemical growth from '80 to '80	Apr. 20	24	Justice Dept. - Antitrust Division - Lawrence Williams is new chief	Jan. 19	30			
Russian CPI missed its goals last year	June 22	24						
Small Business Committee's report on acquisition in CPI - Who's invading whom - letter	Feb. 23	48						
South Africa brews trouble - Viewpoint	Jan. 26	6						
South Africa - good investment opportunity despite internal unrest (map)	Apr. 20	5						
Specialties - one-stop stores shape future of specialties sales	Apr. 20	47						
Standard OII (New Jersey) drives deeper into chemicals (table)	May 4	58						
Standard OII (New Jersey) intensifies chemical efforts	May 11	22						
	May 4	18						
Instruments								
Atomic absorption spectrophotometer suitable for process control analysis	Mar. 9	70	Ketones - Fluoroketones: family of new chemicals bids for jobs	Mar. 2	47			
Beckman branches out into nuclear instrumentation	June 8	48						
Computing totalizer for turbine flowmeters	Feb. 2	66						
Direct-reading instrument tester	Feb. 2	66						
Drop test kits for testing water	June 15	52						
Du Pont moves ahead in instruments field	Apr. 13	27						
Electronic instruments calibrator	Mar. 9	55						
Gas detector	Feb. 9	49						
Infrared detector	May 11	47						
Japanese-U.S. instrument technology swap	Mar. 2	52						
Upstream process analyzers gain favor with CPI (table)	June 1	113						
Portable gas analyzer detects trace amounts of hydrocarbons in air	Apr. 20	81						
Production statistics analyzer	Jan. 26	91						
Pump performance checked by new instrument system	June 22	46						
Rubber tester, Oscillating-Disk Rheometer	May 18	67						
Solid-state totalizer (SST-1) called Pulsicret	Feb. 16	52						
Steam analyzer	Feb. 9	49						
Strip-chart calibrator	Apr. 20	81						
System monitor	Jan. 26	91						
Thickness tester	June 15	51						
Turbidity analyzer	Apr. 6	102						
Insulation								
Cellular thermoplastic insulation markets get boost from Carbide's new patent	Jan. 19	62						

Business Council forecasts moderate wage increases.	May. 25 72	May. 18 72	North Carolina water pollution bill	May. 18 18
Canadian joint collective bargaining drive	Feb. 16 40		North Carolina will require stream polluters to pay for dead fish	June 15 40
CPI increases size of cash awards for idea-generating employees.	June 29 29	May 25 55	North Dakota curbs drug discounters	Apr. 27 34
Civil rights bill faces rough battle	June 29 28	June 22 67	Olin Mathieson charged with concealing kickbacks in drug sales involving U.S. foreign aid funds	Mar. 16 36
Crisis in labor - report (chart & tables) - letter	Feb. 23 67	May 11 48	Oregon and Florida step up antipollution drives, North Carolina eases up	May 25 174
District 50 edges out OCAW at Ethyl plant.	Mar. 16 12	Apr. 20 96	Oregon probes asphalt bids	Jan. 12 85
District 50, UMW, financial problems	June 1 44	Feb. 23 94	Penn-Olin: facts vs. theory - Viewpoint	May 11 5
Du Pont pay raise	Feb. 16 20	Apr. 6 102	Penn-Olin joint venture, Lever-Monsanto "all" detergent - antitrust charges dismissed	
Employee morale improved by letting workers pick their own package of fringe benefits.	Mar. 16 52	Jan. 19 66	Plasma - arc torch antitrust charges	May 11 21
Employment of production workers up	Mar. 23 112	Apr. 27 60	Plywood antitrust suit filed	Jan. 19 20
Equal pay for women is now federal law	Feb. 23 35	Mar. 23 24	Promote furniture polish trademark suit	Mar. 23 24
France's labor turmoil	June 22 29	June 15 40	Quality stabilization bill opposition	Jan. 12 85
German metal workers' strike settled, improvement in labor relations forecast	Apr. 6 41		Rapid Shave television commercials still under fire	June 15 33
German wages may be pushed up another 8-9%	May 25 79	Apr. 6 32	Refrigerant gas suit	Mar. 23 114
Glass workers get wage increase	Feb. 23 52	Jan. 5 24	Robinson-Patman Act - layman's guide	Apr. 13 42
Government tries novel approach to strike prevention for NASA's Mississippi Test Operations	Jan. 12 84	Jan. 19 24	Robinson-Patman Act - "unreasonably low prices" section upheld	June 29 28
Hercules Powder avoids strike	May 11 84	Feb. 23 39	Soda ash-from-bron patent battle	Mar. 2 27
Humble Oil layoff coming	Apr. 27 40	Jan. 12 7	Space suit case	June 1 44
Kelly Girl Service launches program to supply temporary personnel for sales campaigns	Mar. 16 52	Jan. 5 58	Soda ash-from-bron patent battle	May 18 21
Layoff at Carbordun plant	Mar. 23 64	Mar. 30 36	Sodium chloride additives patent infringement suit settled	Mar. 2 26
Longshoremen strike legacy	June 15 44	May 18 18	Space suit expert seeks right to work for former employer's competitor	Apr. 27 38
Longshoremen strike takes chemical toll	Feb. 2 22	Mar. 2 28	Space suit trade secrets case - Goodrich is victor	June 1 30
Longshoremen's strike - impact on chemical shippers has varied	Jan. 5 21	May 18 21	Specialties marketers keep wary eye on bills before state legislatures	Feb. 23 125
Management vows to support economic equality for Negroes	Jan. 12 72	Feb. 23 36	State legislatures step up pressure on specialties makers (table)	June 15 89
Maritime disputes - battle over compulsory arbitration bill leads to plan to lift ban on U.S. use of foreign-built ships	June 22 23	Feb. 16 19	Stock fraud case involving United Dyne - decision	Feb. 9 24
NLRB ruling sparks use of molded insulation for pipe fittings	June 8 57	Jan. 12 22	Tanker Marine Sulphur Queen litigation	Feb. 23 36
Negro hiring up	Apr. 6 81	Jan. 5 58	Technology export test generates hot legal battle	Mar. 9 22
New Jersey court ruling on accident reporting could be costly	June 15 44	Mar. 9 47	Texas' "dedicated reserves" tax on natural gas is unconstitutional	Mar. 2 18
Niagara Falls companies deny charges that federal funds were being used to relocate New York plants in Ohio and Tennessee	Mar. 30 35	May 11 10	Texas water rights hassle	Apr. 27 40
OCAW accepts 5% wage increase from oil firms	Feb. 23 160	Feb. 9 17	Thalidomide hearings	Apr. 27 40
OCAW proposes increase in dues	Jan. 12 83		Titanium dioxide trade secrets battle - preliminary injunction bars Donald Hirsch from disclosing details of DuPont process	
OCAW wins at Aviatic plant	June 15 46	May 11 20	Trisodium phosphate price fixing complaint - eight firms and MCA sign consent order	Jan. 12 84
OCAW to formulate bargaining program for petroleum unions.	June 29 34	Mar. 9 17	Trisodium phosphate price fracas draws attention to illegal pricing policies	Jan. 19 19
Organized labor looks at itself - Viewpoint	May 18 81	Apr. 13 27	"Truth in packaging" bill is back with greater support	Jan. 26 21
Overtime - labor opens drive to cut overtime work	Jan. 12 5	Jan. 12 27	Vinyl film products antitrust suit	Feb. 9 27
Paper workers state objectives	Feb. 2 32	Jan. 12 28	Vitamin B12 patent suit - Merck sues Richter	Apr. 13 27
Patent amendment to Labor Management Relations Act	June 1 44	Mar. 30 28	Vitamin-deficient baby milk formula law-suit settled	Feb. 9 24
Pay bonus for Kaiser employees	June 29 38	Apr. 27 40	Water quality probe may lead to tougher federal enforcement of laws	Jan. 12 85
Profits vs. costs - letter	Apr. 20 10	Jan. 19 20	White Motor's dealer contracts case to get definitive answer	June 8 41
Psychological testing strikes back at critics	June 22 7	Mar. 9 18	Williams, Lawrence, will head Justice Dept.'s Antitrust Division	Mar. 16 27
Puerto Rico unionization - stricter safety measures "threshold" concept	Jan. 12 84	Feb. 2 73	Leaching - Metallurgical leach process - Monsanto has worldwide licensing rights	Jan. 19 30
Radiation protection - unions demand	Mar. 23 107	Mar. 16 52	Lead - Prices	May 4 55
Radiation protection - unions support "threshold" concept	May 11 84	June 29 38	Lead Detectors	Jan. 13 91
Rail dispute - Kennedy extends deadline	June 22 18		Hydrostatic testing unit	
Railroad strike averted	Apr. 13 19		New equipment: (1) sulphur dioxide spray form visible fog near leak in ammonia line; (2) portable gas analyzer detects hydrocarbons in air	Apr. 20 81
Railroads - Kennedy exerts pressure to avert strike	June 29 27		Leasing	
Railway dispute - breakdown in labor-management talks	Mar. 23 17		Truck and auto leasing record in '62	Jan. 19 38
Railway dispute - Supreme Court affirms lower court rulings	Mar. 16 19		Truck leasing - an attempt to cut distribution costs (chart)	June 29 65
Reuther, Walter, opens organizing drive	Feb. 16 29		Leather	
Roxana, Ill., strike settled	Feb. 23 150		British firm will market synthetic leather in U.S.	Feb. 2 46
Rubber contract calls for joint-study committee	June 15 46		Carfin shoe material is largely polyester fiber	June 15 79
Rubber industry settlements	May 4 17		Synthetic leather for shoe uppers	May 18 17
Rubber industry strike averted	Apr. 27 18		Synthetic vs. leather for shoe-upper market	May 25 51
Rubber negotiations emphasize job security	Feb. 9 18		Leveling agent, Acetone NR	Apr. 13 91
Rubber settlements may give tipoff on steel and electrical negotiations	May 4 25		Light	
Ruttenberger, Stanley, moves from AFL-CIO to Labor Dept.	Jan. 5 32		Cold light concept uses tritium-triggered electroluminescence	Apr. 20 76
Seattle distributor boosts pay	June 15 44		World's most powerful continuous beam of light	May 25 66
Settlements - roundup	June 29 34		Lighting	
Shell expands in midst of strike at Houston Stauffer strike - supervisory personnel run plant	June 15 98		Emergency lighting unit	Apr. 27 56
Steel crisis may be side-stepped this year	Mar. 23 102		Photoluminescent additive, Lungalo	Apr. 20 84
Steel settlement	May 11 19		Polarized light stirs new controversy in plant lighting (table)	Feb. 9 41
Steel workers may reopen contract negotiations	June 29 17		Lignin - Three processes use lignin as reinforcing agent and filler for rubbers and plastics	Mar. 2 58
Strike by Leeds & Northrup employees settled	June 1 23		Lignite - Susquehanna-Western is ready to process uranium from lignite in North and South Dakota	May 4 56
Strike over at Taylor Corp.	Jan. 12 83		Lindane - Prices	Jan. 5 60
Susquehanna-Western votes against union representation	May 25 178		Lithium	
Teamsters setback at Baltimore Paint and Chemical	Jan. 12 84		AEC must find market for lithium stockpile. Market outlook improves	Apr. 13 30
Teamsters get second try at Bancroft & Sons	Feb. 2 73		Lubricants	
Teamsters turned down by Mallinckrodt workers	Apr. 6 30		Additives - new compounds may have broad application in aluminum fabrication methods	Jan. 26 70
35-hour work week - Reuther opposes Meany proposal	Jan. 5 57		Aerosol lubricants and release films	May 18 68
Unions push for joint management-labor study groups	Mar. 9 27		Aluminum lubricants to be marketed under CINDOL trade name	June 29 48
Wage boost by Harshaw Chemical division	June 1 37		Colloidal suspensions of tungsten disulfide Mold-release agent and lubricant	June 29 39
West Coast pulp and paper wage increases	Feb. 23 163			Jan. 5 36
West German wage contracts	June 15 44			
Zinc employees application for labor adjustment assistance denied	May 4 38			
Zinc workers apply for federal unemployment benefits under Trade Expansion Act of '62	Mar. 23 24			
Feb. 16 40				

Molybdenum disulfide lube additives cause corrosion	Apr. 27	68
New lube resist potent liquid rocket fuels	Apr. 6	70
Prime mover will use gas-lubricated bearings	Apr. 27	64
Small-size tungsten disulfide powder lubricant	June 15	52
Water-lubricated centrifugal compressor gets tryout	Jan. 12	64
Luxembourg - Nylon 6/6 filament yarns project	Apr. 13	59
Lysine - Prices	Jan. 12	71

**M**

Magnesium		
Dustless flux	Jan. 26	92
Production up in '62	Feb. 2	61
Magnets		
Cook compact, superconducting magnet system	Mar. 23	78
Magnetohydrodynamic generator has been coupled with a superconducting magnet	Jan. 19	52
Superconducting columbium-zirconium alloy in four different compositions	Mar. 9	55
Superconducting magnet provides room-temperature magnetic field	Jan. 5	45
Superconducting magnets race resumes - 200-lb. superconducting magnet system requires almost no power input	June 22	56
Maine - Androscoggin River pollution fracas	Mar. 23	78
Malathion - Prices	Feb. 23	160
Maleic anhydride - Prices	Jan. 5	59
Maleic hydrazide - USDA report criticizes MH-30 use	Apr. 27	72
Management		
Annual meetings - roundup Apr. 20-23, May 25-26		
Be a global thinker - Viewpoint	June 1	28
Letter	May 4	5
Bon Ami annual meeting	June 29	7
Bonneville stockholder takes further legal measures to block sale	June 29	24
Bonneville stockholders vote to accept Standard Magnesium offer	Feb. 23	36
Bonneville's bitter battle over proposed sale	Feb. 16	19
Bromine know-how pays off for Great Lakes Chemical	Jan. 12	22
CPI increases size of cash awards for idea-generating employees	June 29	29
CPI seeks cure for 'technological obsolescence' of scientists and engineers (chart)	Mar. 2	66
Computers help management make decisions (table)	Feb. 16	33
Delaware losses appeal as corporate home	Mar. 16	52
Dunn, Parker S., new president of American Potash	May 18	20
Esso Research has a new president: Charles F. Jones	Mar. 9	78
Executive changes at Goodrich-Gulf, Commercial Solvents, Matheson and Borg-Warner	May 4	23
Governors pitch for new chemical constituents	Jan. 5	56
Grace promotes professional eye care to stockholders	Apr. 27	38
Hercules heads for harder sell under Henry A. Thouron	Jan. 26	26
Hercules' new president: Henry A. Thouron	Jan. 19	25
Hoover puts accent on youth in top command	June 15	24
Industry leaders vow to support economic equality for Negroes	June 22	23
Insurance on key men helps small CPI firms survive sudden loss of leadership	May 18	75
Kaiser gives its chemicals division a present	Feb. 16	23
Labor loses at itself - Viewpoint	Jan. 12	12
Labor - the big challenge - report (chart & tables)	Feb. 23	67
Labor Management Relations Act - patent infringement	June 29	32
Mason, Bimy, Jr., Carbide's new chief executive officer	May 11	25
Movies gain favor with CPI	June 15	37
New Jersey companies battle ruling on accident reporting	Mar. 30	35
Product managers take on bigger role in corporate planning (table)	Apr. 20	87
Programmed instruction gets high grades in the CPI (table)	Apr. 13	38
Psychological testing strikes back at critics	Apr. 20	29
- letter	June 22	7
Score of new management positions crop up in CPI	Jan. 19	43
Sims, D.W., is new chairman of Carlton Products	Jan. 5	22
Tax credit reform gets industry vote as way to help plant investment (table)	Apr. 27	37
Total management system comes into vogue	May 25	167
Unions push for joint management-labor study groups	June 1	37
United Technical Industries charged with misrepresentation of assets	May 18	21
Manganese - Ferroalloy producers seek import quotas	June 1-54	8
Manpower, technical		
Engineering manpower studies released	June 8	37
Engineers - maximum hiring rate - letters	Mar. 30	10
Engineers salaries on upswing	Mar. 2	55
Engineer's status as a professional - Professional approbation - letter	Jan. 5	7
Keep recruiting competitive - Viewpoint - letters	Mar. 16	5
Psychological testing strikes back at critics	Apr. 6-7	10
Psychological testing strikes back at critics	Apr. 20	29

- letter	June 22	7
Research personnel shortage pinpointed in new survey	Jan. 26	77
'Technological obsolescence' of scientists and engineers threatens CPI (chart)	Mar. 2	66
Manufacturing Chemists' Assn.		
Hull, John E., discusses inadequate public relation budgets - Viewpoint	June 29	5
West Virginia meeting highlights: John E. Hull delivers farewell address, Christian Herter discusses trade agreements	June 15	25
Marine Engineers Beneficial Assn. - Calhoun, Jesse, proposes that U.S. companies be allowed to use foreign-built ships	June 8	57
Markers - Self-luminous markers for use in aircraft	May 25	44

Meters		
Audio signals transmitted over a light beam generated by an injection laser	June 1	12
Continuous 9-watt laser	May 4	4
Injection laser uses indium phosphide	May 11	59
Laser action discovered in four more gas systems	Apr. 20	76
Laser discharge stored in a spinning mirror	May 4	56
Liquid laser based on europium in an organic chelate	Mar. 2	51
Plastic laser developed	Mar. 16	64
Rare-earth solutions for work with lasers	Apr. 6	101
Russian scientist points to possibility of energy transfer in organo rare-earth compounds	Mar. 2	51
Mason, Bimy, Jr. - Carbide's new chief executive officer	May 11	25

Messachusetts Institute of Technology		
Pumping baffle developed by James Vaughn and Edmund Gilliland	June 1	102
Tungsten bonding technique	Jan. 12	69

Materials Handling		
Air-handled bulk shipping gains new interests	Mar. 23	27
Nylon strapping system for shipment of pallet loads	Jan. 5	35
Meat-slicing process uses Thiomidium	June 22	59
Mental Health - Senate passes program	June 8	30
Mercapitals - Pilot-plant quantities available	Mar. 16	23
Metachloroperbenzoic acid - developmental quantities available	Feb. 23	93
Metals		
Carbon is more fireproof than some refractory metals	May 11	60
Electrodeposition of metals onto molded plastic parts - new technique	Apr. 6	69
Explosive cradding moves closer to commercialization	May 25	114
Fiber reinforcement of metals studied	June 29	47
GE dedicates refractory metals plant	May 11	59
Inspection unit detects flaws in metals	Feb. 23	93
Kennecott Chemical charts new marketing maneuvers	June 15	25
Monsanto makes first move into metals	May 11	24
Monsanto obtains worldwide licensing rights to metallurgical leach process	May 4	55
Powdered metals - report (charts & table)	Mar. 23	83
Primary metals buildup in Southwest (map)	Mar. 2	24

Meters		
Oxygen meter	May 4	70
Tank level meter	Apr. 20	84
Methanol - Japanese price	Mar. 2	61
Bethyl benzophenones - Developmental quantities of four compounds and a lower cost isomer mixture available	June 8	48
Methyl methacrylate monomer - Prices	June 29	57
Methyl naphthalene - Semicommercial production by Ashland	Mar. 30	49

Mexico		
First antibiotics plant opened	Feb. 9	37
Sulphur producers did relatively well in '62	Mar. 23	18
Microcircuits - Continuous machine for vacuum deposition of thin film circuits	Apr. 20	76

Microfilm		
Filing system called Docufilm	June 22	73
Microfilmed equipment catalogs speed data searches in plants	Apr. 13	92
Mills - Remote-controlled grinding mill	June 22	73

Minerals		
California geothermal well contains large quantities of minerals	Mar. 16	63
California geothermal wells - negotiations for chemical recovery rights	June 1	92
Mining minerals from the sea discussed at ACS meeting	Apr. 13	70
1962 was record year for U.S. producers	Jan. 12	72
Poland runs short of mineral raw materials	Mar. 2	34
Senate will check domestic minerals industry	Mar. 30	27
Mining - Solution mining of Saskatchewan peat lands moves closer to reality	Feb. 9	67
Minnesota - Lurkin new labs to the Twin Cities (table & map)	May 4	43
Modernization - Plant modernization gets the hand sell in new government campaign	Feb. 16	22

Molding		
Dialyl phthalate resin-molding compounds	Apr. 6	102
Glass-fiber-reinforced phenolic molding compound	Mar. 16	83
Glass polyester molding compound for electrical components	June 1	108
Mold-release agent and lubricant	Jan. 5	36
Reichold adds phenolic molding compounds	June 8	24

Molecular Sieves		
Molecular sieves hydrocarbon catalyst with pore size between 6 and 15 angstroms	Feb. 23	100
Sieves score big gains in hydrocarbon separation jobs (chart)	Jan. 26	37
Molybdenum - Molybdenum alloy	Jan. 5	35

Molybdenum disulfide - Army group warns against corrosive effects of tube additives	Apr. 27	68
Monaco - France tax fight	Mar. 2	33
Monomers - Thermosetting resins research spawns new family of monomers	Jan. 5	42
Monosodium glutamate - Price cuts; Japan urged to double import allowance on raw materials	Apr. 6	89
Motors		
Silicone rubber encapsulant	May 18	67
Speed-control unit	Apr. 13	91
Moving Pictures - CPI boosts movie-making outlays	June 15	37
- letter	June 29	7

**N**

Naphtha-based route to hydrogen reaches commercial status	May 11	54
Naphthalene		
Ashland Oil expansion	Mar. 30	49
Phthalic price cuts put squeeze on raw material suppliers	Apr. 27	71
U.K. naphthalene-phthalic anhydride contract terms changed	Feb. 9	77
National Aeronautics and Space Administration		
Engineering and administration building to be built at Marshall Space Flight Center at Huntsville, Ala.	Mar. 9	87
New programs speed flow of government R&D information (table)	May 25	57
Space electronics research center planned for Boston area	Feb. 9	64
Space program conference	Jan. 26	32
National Assn. of Accountants - Panel discussion on Revenue Act of '62	Apr. 27	36
National Petroleum Council - Study of petrochemicals made by oil and gas companies	Mar. 30	24
National Referral Center for Science and Technology - New information retrieval center in Washington	Mar. 16-28	24
National Safety Council - Plans revisions of rulings for counting injuries	May 25	172
National Science Foundation		
Haworth, Leland, may be new head	Mar. 23	40
National Referral Center for Science and Technology - clearinghouse for scientific information Mar. 16-28, (table)	May 25	57
National Swimming Pool Institute - Construction report	May 25	104
Natural Gas		
European study group recommends integrated pipeline network to distribute North African natural gas	Feb. 23	54
Fuel cell conversion of natural gas has been successfully tested	Jan. 5	45
Texas' "dedicated reserves" tax on natural gas is unconstitutional	Mar. 2	18
Underground freezing technique will be used in East's first gas storage cavern	Mar. 2	55
Underground storage of LNG - Philadelphia Gas Works project	May 11	60
Natural Resources		
Closeup - year 2000 - report (charts)	Apr. 13	86
Kennedy recommends new emphasis on research	Jan. 19	30
Outlook to year 2000	Mar. 30	60
Naval Stores - Pacific Northwest industry development	Apr. 13	80
New Hampshire - Androscoggin River pollution fracas	Feb. 23	160
New York City (City) - Times Tower becomes showcase for chemistry	Apr. 20	24
New York City (World's Fair) - Chemical organization moves ahead with plan to lure CPI firms to World's Fair	Jan. 12	83
New York State - Erie-Niagara watershed planning and study project	Feb. 9	25
Nitric Acid		
Prices		
TVA chooses builder for nitric acid plant, ortho-Nitrochlorobenzene - Prices	May 4	63
North Carolina - Phosphate mining feasibility study by Magnet Cove and Smith-Douglas	Feb. 9	77
Northwestern University - Transportation Center launches two programs aimed at producing transportation-distribution specialties	Feb. 9	24
Nozzles - Spray nozzles		
Allied pushes nylon-6 to fiber market front tanks	June 8	55
Dynemotyl nylon strapping	Jan. 5	35
Fibers roll up new rug gains (charts)	June 29	61
Market grows, expansions continue (tables)	Mar. 9	24
Tricot makers launch promotional drive, new fabric guarantees	June 8	60

Octafluoropropane - Available for use as gaseous dielectric		Patents		
May	25	43	Aerosol shaving cream patent suit settled... Drug patents may be killed in Canada - threat grows in other countries too (table) Government-wide patent policy changes will please no one	
Octylphenol - Prices	Feb.	9	77	Labor Management Relations Act - patent amendment
Ohio State University - Institute For Research Vision - Blackwell, H. Richard, discusses advantages of polarized light	Feb.	9	41	Magnetic tape index file of chemical industry patents
Oils and Fats	Feb.	23	94	NASA will tighten restrictions on patents going to contractors
Laboratory bath oil	Jan.	26	86	Non-life covering rights of employees
Safflower oil supplies loosen up, slight surplus develops	June	15	97	Invention stirs up storm on West Coast
Tall oil fractionating plant at Portland, Ore. will buy crude tall oil from West Coast kraft mills	Feb.	2	58	Polyacetal patent dispute ends
Tall oil outlook	May	25	157	Polyester fiber patent fracas in Germany
Tall oil shortage may cause pinch in fatty acid supply (chart & tables)	Jan.	5	51	Polypropylene fight - Montecatini wins round in Austria
Tall oil - Spence fractionating process requires comparatively low investment	June	22	49	Polypropylene patent cross-licensing breakthrough
Offices	Mar.	23	69	Polypropylene sparks patent rush (chart)
Alpha-olefins set sights on variety of markets (table)	Mar.	30	59	Soda ash-from-tuna patent battle looms May 11-20, 1970
Alpha-olefins to be produced commercially by Gulf Oil	Jan.	12	72	Urethane foam industry studies new patent covering use of fluorocarbon blowing agents
Copolymers of acrylonitrile and alpha-olefins	June	29	47	Pavement - Color paving products called Pavabrite
Organophosphates - Prices	Mar.	26	86	Pentamethyl - Offered below schedule by New York reseller
Oxalic acid - Prices	Apr.	20	74	Peracetic acid
Oxygen	Jan.	12	64	Continuous expansion process uses concentrated aqueous peracetic acid made by vacuum azeotropic distillation
Oxygen lancing discontinued by steel firm	June	22	49	New processes bolster growth of epoxidation products (charts & table)
Water-lubricated centrifugal compressor aims for oxygen service	Mar.	11	20	Perchloroethylene - Market outlook: bright (charts)
Ozone difluoride - Centaur may use ozone difluoride as igniter	May	9	47	Perfumes
Packaging	Jan.	12	72	Britain's Proprietary Perfumes moves into open market
Bee cartons made of polyethylene sheet	Apr.	27	34	Nonane diacetate-1,3, new jasmine chemical
Bugroo bags tested by USDA	May	11	10	Peroxide - Organic peroxide cross-linking agents for vulcanizing rubber and plastics
California attack on "false-bottom" jars could lead to rash of packaging laws - letter	Mar.	9	17	Peru - Transforms insecticide pilot plant into production-scale unit
California's misleading container battle - Creative Plastic Containers wins latest round	Feb.	9	17	Petrochemicals
California's "misleading" container law-suit against three cosmetics makers	May	11	20	Allied proceeds with expansion program
California seeks injunctions against cosmetic makers using plastic packages with "false" bottoms and sides	May	9	17	British demand for petrochemical feedstocks grows
Flexible plastic packaging film sets new record (charts & tables)	May	11	73	British Petroleum's chemical stake grows (table)
Foam vinyl plastisol for strippable packaging	Feb.	23	99	El Paso Natural Gas stages big buildup in Odessa, Tex.
Printing ink market, paced by packaging, presses toward record year	Apr.	20	59	India will develop petrochemical industry
"Truth-in-packaging" bill - business opposition has its effect	May	4	26	Japan pushes petrochemicals
"Truth-in-packaging" bill endorsed by Consumer Advisory Council	Mar.	30	28	Japanese prices are firming
"Truth-in-packaging" bill gains considerable support in Congress	Apr.	27	30	Phillips Petroleum looks for more chemical growth
"Truth-in-packaging" bill reintroduced	Feb.	9	27	Rexall sees rosier future for petrochemicals
"Truth-in-packaging" bill - Senate decision near	Apr.	6	36	Spain moves to bolster its position in petrochemicals
Weights and measures - roundup of State legislation (table)	June	15	91	Survey gives data on oil and gas firms' share of U.S. chemical output (charts)
Packing	June	15	51	Turbine-powered cars pose problems for petrochemicals, additives
Soft packing material contains graphite and TFE fibers	Apr.	27	56	U.S. companies push ahead slowly on overseas projects, but Phillips pulls out of Algerian venture
Teflon packing for emergency service	Jan.	26	70	Petroleum
Paints	Jan.	26	85	Britain's oil appetite grows
Acrylic, new quick drying paint for automotive trade	Mar.	30	60	Bulgaria builds first modern refinery
Automotive aerosol paint field is growing	Mar.	9	56	Catalyst cleaning process, Met-X - separation process is key
British-made naphthalene-type paint drier price cut	Feb.	23	123	Edible yeast from petroleum paraffins
Coalescing agent, Dalpad A.	Jan.	5	36	Fermentation processes feed on low-cost petroleum raw materials (tables)
Cooperative research group helps smaller paintmakers compete with the giants	June	22	67	Glass propping agent for use in hydraulic fracturing
Electrostatic paint for nonmetals	Mar.	23	36	LPG lineup changes as Carbide bows out of business
Latex producers look for growth in exterior, industrial fields (chart & table)	Apr.	6	101	Molecular sieves sift profits from petroleum
One-coat latex paints	May	25	71	Oil and paper register optimism - Business benchmarks
Paint vehicle called Aqua Foll	May	25	44	Outlook remains bright - Business benchmarks
Proposal to ban manufacturers from selling at retail has been urged on Congress	Feb.	23	130	Survey gives data on oil and gas firms' share of U.S. chemical output (charts)
Urethane paint vehicle	June	8	26	Pharmaceutical Manufacturers Assn. - Calls for closer cooperation between government and industry
Water-based linseed oil house paints to make gains in '63	May	25	101	Plants
Pakistan	Jan.	12	57	Clark Oil will use Allied's phenol-formaldehyde process
Japanese firms will export plant to East Pakistan for making rayon and cellulose from bamboo	June	8	48	Market outlook for '63
Natural gas pipelines to be extended into northern regions	Mar.	2	42	Prices down, Texas City shelves plans
Panama - product-testing program	Apr.	6	106	Prices of phenol-based products
Paper	May	25	184	Phenolics
Direct-radiant-heating method for drying paper	Mar.	2	22	Flexible phenolic resins called Tetraflex
Laminated paper called Starlon	June	15	97	Phenolic materials for use in packaging miniaturized electronic equipment
Oil and paper register optimism - Business benchmarks	June	15	97	Reichold adds phenolic molding compounds Phenylidodecyl phosphite - Prices
Outlook remains bright - Business benchmarks	June	15	97	Phosphates
U.S. makers expand, look to Europe's growing market (table)	Mar.	5	22	Flurry of expansion in Western U. S. and Canada
West Coast kraft mills will sell by-product tall oil	Apr.	27	82	Long-chain glassy phosphate
Oils and Fats	May	2	22	Montana's Douglas Mine project will add more phosphate fertilizer to northwest U.S. and western Canada
Laboratory bath oil	June	15	97	North Carolina phosphate mining feasibility study by Magnet Cove and Smith-Douglas
Safflower oil supplies loosen up, slight surplus develops	Mar.	2	22	Phosphate ester surfactants: growing strong (tables)
Tall oil fractionating plant at Portland, Ore. will buy crude tall oil from West Coast kraft mills	June	15	97	World demand up
Tall oil outlook	Apr.	6	106	Phosphine
Tall oil shortage may cause pinch in fatty acid supply (chart & tables)	May	25	184	Available from Rocky Mountain Research Hooker process uses new cell
Tall oil - Spence fractionating process requires comparatively low investment	Jan.	5	51	Phosphoric acid
Offices	June	29	32	Canadian phosphoric acid project from native ores under intense study - letter
Alpha-olefins set sights on variety of markets (table)	Jan.	19	29	Japanese process makes phosphoric acid and gypsum from phosphate rock
Alpha-olefins to be produced commercially by Gulf Oil	Feb.	23	61	Wet process features crystallizer technique that yields 50% acid
Copolymers of acrylonitrile and alpha-olefins	Mar.	18	21	Phosphorus - Fertilizers: 'record crop' in view (tables)
Organophosphates - Prices	Apr.	6	70	Photo resist - Fast photo resist called Kodak Ortho Resist
Oxalic acid - Prices	May	11	19	Photocopying - Pay-as-you-copy plan initiated
Oxygen	Apr.	6	23	Photography - Xerox may enter color photography field
Oxygen lancing discontinued by steel firm	June	15	21	Photosynthesis - University of California researchers clarify ferredoxin's role in photosynthesis
Water-lubricated centrifugal compressor aims for oxygen service	Jan.	12	32	Phthalic anhydride
Ozone difluoride - Centaur may use ozone difluoride as igniter	May	18	Grace, W. R., will not shut down Badger-process phthalic plant at Fords, N.J.	
Packaging	June	22	49	Growing use of o-xylene predicted
Bee cartons made of polyethylene sheet	Mar.	11	10	Japanese prices
Bugroo bags tested by USDA	Mar.	9	47	Japanese supply is running low
California attack on "false-bottom" jars could lead to rash of packaging laws - letter	May	11	Market outlook for '63	
California's misleading container battle - Creative Plastic Containers wins latest round	May	11	Offered below schedule by New York reseller	
California's "misleading" container law-suit against three cosmetics makers	May	11	Price cuts; raw materials jockey for position	
California seeks injunctions against cosmetic makers using plastic packages with "false" bottoms and sides	May	11	Price drop puts squeeze on least-efficient capacity (chart)	
Flexible plastic packaging film sets new record (charts & tables)	May	11	Prices	
Foam vinyl plastisol for strippable packaging	May	11	Supply-demand imbalance, molten phthalic prices	
Printing ink market, paced by packaging, presses toward record year	May	11	U.K. naphthalene-phthalic anhydride contract terms changed	
"Truth-in-packaging" bill - business opposition has its effect	May	11	Pigments	
"Truth-in-packaging" bill endorsed by Consumer Advisory Council	May	11	Heat-stable Day-Glo fluorescent pigment	
"Truth-in-packaging" bill gains considerable support in Congress	May	11	Phthalate-ester formulated pigment color prices	
"Truth-in-packaging" bill reintroduced	May	11	Titanium dioxide pigments trade secrets suit - preliminary injunction bars Donald Hirsch from disclosing details of Du Pont process	
"Truth-in-packaging" bill - Senate decision near	May	11	Piping	
Weights and measures - roundup of State legislation (table)	May	11	Coal pipeline at Cadiz, O., may be retired	
Packing	May	11	Coal pipeline in Ohio will be closed down July 1	
Soft packing material contains graphite and TFE fibers	May	11	Combination pipeline-reactor envisioned	
Teflon packing for emergency service	May	11	Electric heating system cuts costs of tracing process piping and equipment	
Paints	May	11	European study group recommends integrated pipeline network to distribute North American and European natural gas. Induction heating bids for pipe winterizing jobs	
Acrylic, new quick drying paint for automotive trade	May	11	NRL ruling sparks use of molded insulation for pipe fittings	
Automotive aerosol paint field is growing	May	11	Pipeline strainer	
British-made naphthalene-type paint drier price cut	May	11	Plastic piping costs, savings pinpointed	
Coatings agent, Dalpad A.	May	11	Poland - Friendship pipeline will feed petrochemical complex (map)	
Cooperative research group helps smaller paintmakers compete with the giants	May	11	Polypropylene-lined pipe, valves, fittings, pumps introduced	
Electrostatic paint for nonmetals	May	11	Spain bids for station on trans-Mediterranean gas pipeline	
Latex producers look for growth in exterior, industrial fields (chart & table)	May	11	Synthetic foam cylinder for cleaning pipes. Transition pipe joints for insulation space in cryogenic vessels	
One-coat latex paints	May	11	Plant Location	
Paint vehicle called Aqua Foll	May	11	Hawaii has high hopes for chemicals (table)	
Proposal to ban manufacturers from selling at retail has been urged on Congress	May	11	- letter	
Urethane paint vehicle	May	11	Houston boosters keep industry in the coral (table)	
Water-based linseed oil house paints to make gains in '63	May	11	Memphis makes new bid for chemical plants, rejoins TVA power system	
Pakistan	May	11	Midwest governors pitch for new chemical constituents	
Japanese firms will export plant to East Pakistan for making rayon and cellulose from bamboo	May	11	Minnesota - Luring new labs to the Twin Cities (table & map)	
Natural gas pipelines to be extended into northern regions	May	11	Olin Matheson scotches rumor of exodus from Niagara Falls, N.Y.	
Panama - product-testing program	May	11	Research parks lineup grows (table)	
Paper	May	11	Plants	
Direct-radiant-heating method for drying paper	May	11	Army puts surplus plants up for lease	
Laminated paper called Starlon	May	11	Government staffers preach modernization in regional railroads	
Oil and paper register optimism - Business benchmarks	May	11	Polarized light stirs new controversy in plant lighting (table)	
Outlook remains bright - Business benchmarks	May	11	Plastic Film	
U.S. makers expand, look to Europe's growing market (table)	May	11	Carbide sells vinyl film business	
West Coast kraft mills will sell by-product tall oil	May	11	Heat-developed film focuses on vast data-storage market	
Oils and Fats	May	11	ICI will market Melinex film in Canada	
Laboratory bath oil	May	11	Laminated film composed of two dissimilar thermoplastics	
Safflower oil supplies loosen up, slight surplus develops	May	11	Packaging triggers film boom (charts & table)	
Tall oil fractionating plant at Portland, Ore. will buy crude tall oil from West Coast kraft mills	May	11	Polypropylene film prices	
Tall oil outlook	May	11	Terephthalic acid route to polyester fibers and films	
Tall oil shortage may cause pinch in fatty acid supply (chart & tables)	May	11	Vinyl film products anitrust suit	
Tall oil - Spence fractionating process requires comparatively low investment	May	11	Plasticizers	
Offices	May	11	British producers cut phthalate plasticizer prices	
Alpha-olefins set sights on variety of markets (table)	May	11	Hydrocarbon oil plasticizer	
Alpha-olefins to be produced commercially by Gulf Oil	May	11	Nitroplasticizer plant will serve the Navy's Polaris program	
Copolymers of acrylonitrile and alpha-olefins	May	11	Nitroplasticizers will give extra zip to fuel for Polaris A-3 missile	
Organophosphates - Prices	May	11	Phthalate and adipate plasticizer prices (table)	
Oxalic acid - Prices	May	11	Santicizer 462 plasticizer	
Oxygen	May	11	Trimellitic acid esters line	
Oxygen lancing discontinued by steel firm	May	11		
Water-lubricated centrifugal compressor aims for oxygen service	May	11		
Ozone difluoride - Centaur may use ozone difluoride as igniter	May	11		
Packaging	May	11		
Bee cartons made of polyethylene sheet	May	11		
Bugroo bags tested by USDA	May	11		
California attack on "false-bottom" jars could lead to rash of packaging laws - letter	May	11		
California's misleading container battle - Creative Plastic Containers wins latest round	May	11		
California's "misleading" container law-suit against three cosmetics makers	May	11		
California seeks injunctions against cosmetic makers using plastic packages with "false" bottoms and sides	May	11		
Flexible plastic packaging film sets new record (charts & tables)	May	11		
Foam vinyl plastisol for strippable packaging	May	11		
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Weights and measures - roundup of State legislation (table)	May	11		
Packaging	May	11		
Soft packing material contains graphite and TFE fibers	May	11		
Teflon packing for emergency service	May	11		
Paints	May	11		
Acrylic, new quick drying paint for automotive trade	May	11		
Automotive aerosol paint field is growing	May	11		
British-made naphthalene-type paint drier price cut	May	11		
Coatings agent, Dalpad A.	May	11		
Cooperative research group helps smaller paintmakers compete with the giants	May	11		
Electrostatic paint for nonmetals	May	11		
Latex producers look for growth in exterior, industrial fields (chart & table)	May	11		
One-coat latex paints	May	11		
Paint vehicle called Aqua Foll	May	11		
Proposal to ban manufacturers from selling at retail has been urged on Congress	May	11		
Urethane paint vehicle	May	11		
Water-based linseed oil house paints to make gains in '63	May	11		
Pakistan	May	11		
Japanese firms will export plant to East Pakistan for making rayon and cellulose from bamboo	May	11		
Natural gas pipelines to be extended into northern regions	May	11		
Panama - product-testing program	May	11		
Paper	May	11		
Direct-radiant-heating method for drying paper	May	11		
Laminated paper called Starlon	May	11		
Oil and paper register optimism - Business benchmarks	May	11		
Outlook remains bright - Business benchmarks	May	11		
U.S. makers expand, look to Europe's growing market (table)	May	11		
West Coast kraft mills will sell by-product tall oil	May	11		
Oils and Fats	May	11		
Laboratory bath oil	May	11		
Safflower oil supplies loosen up, slight surplus develops	May	11		
Tall oil fractionating plant at Portland, Ore. will buy crude tall oil from West Coast kraft mills	May	11		
Tall oil outlook	May	11		
Tall oil shortage may cause pinch in fatty acid supply (chart & tables)	May	11		
Tall oil - Spence fractionating process requires comparatively low investment	May	11		
Offices	May	11		
Alpha-olefins set sights on variety of markets (table)	May	11		
Alpha-olefins to be produced commercially by Gulf Oil	May	11		
Copolymers of acrylonitrile and alpha-olefins	May	11		
Organophosphates - Prices	May	11		
Oxalic acid - Prices	May	11		
Oxygen	May	11		
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<b>Plastics</b>								
British production in '62	Feb.	16	26					
Clip-on carrying device for six-pack containers	May	25	102					
Construction - PVC seeks best door into construction market	Feb.	9	29					
Construction survey shows plastics are gaining wide-scale acceptance	June	8	59					
Demand for plastics in refrigerators and freezers continues to grow	Jan.	12	71					
Easiman sets up plastic sheeting marketing division	June	15	98					
Equipment and pipe linings - costs and savings pinpointed	Mar.	23	42					
Expanded Royalle, a foamed plastic, will vie with reinforced polyester plastics	May	11	24					
Flame retardants for plastics and foams are target of volley of research activity	Feb.	23	105					
German exports	June	8	26					
High-speed testing symposium provides new insight into properties of plastics	June	1	104					
Laminated doors and kitchen cabinets	May	18	72					
Leather vs. synthetic in shoe-uppers market	May	25	51					
Micropowders produced by Rical process	May	25	102					
Mobil Chemical plants big in plastics	May	25	53					
'62 standout: reinforced plastics - Business benchmarks								
Photoluminescent additive, Lunaglo	Feb.	9	94					
Production hazards outlined	Apr.	20	84					
Sales continue to slide - Business benchmarks	June	1	42					
Sales fade in the stretch - Business benchmarks	Apr.	20	112					
Sales pick up speed - Business benchmarks	Mar.	16	90					
Sales reverse downturn - Business benchmarks	June	22	78					
Thermoplastic sheet of extruded ABS polymer	May	11	88					
Transparent plastic from Israel	Apr.	6	69					
United Kingdom usage will double; "Interplas" exhibit opens	June	22	62					
Plasticists - Foam vinyl plastisol for stripable packaging	Feb.	23	99					
<b>Plating</b>								
Fume-suppressing chromium plating compound	Jan.	5	36					
Gold-plating by aerosols	Mar.	30	50					
Legislation eases lead plasters to try new solution recovery unit - letter	Mar.	30	43					
Tin plating process, Alstan 60	May	25	7					
Platinum - Sales up in '62	Feb.	2	66					
Plywood - Antitrust suit	June	1	142					
<b>Poland</b>								
Aluminum output up	Jan.	12	57					
Chemical industry growth plans - slowdown	Feb.	9	37					
Expansion boosts sulfur output	June	8	26					
Mineral raw materials outlook is poor	Mar.	2	34					
Puts chemicals on top (map)	Apr.	13	51					
Three-year trade pact with West German	Mar.	2	33					
<b>Polishes</b>								
Buff-and-spray system for polishing floors	June	1	108					
Floor polish resins	Jan.	5	36					
Furniture polish for low-gloss surfaces	June	29	39					
<b>Polybutadiene</b>								
Cis linear resin faces strong new challenge (table)	Feb.	2	62					
High-cis polybutadiene marketing in Britain	Mar.	23	23					
cis-Polybutadiene makes strong bid for tire market	June	29	58					
Polybutenes - Polyvis SH, new polybutene	Mar.	30	50					
<b>Polyesters</b>								
Celanese builds film plant, enters marketing agreement with ICI	June	29	24					
Corfam shoe material is largely polyester fiber	June	15	79					
Fiber dyes	Mar.	2	42					
Fiber prices (table)	June	1	122					
Flame-resistant acrylic-modified polyester	Mar.	9	62					
German polyester fiber patent fracas	Apr.	6	23					
PPG boosts polyester resins capacity	May	25	55					
Terephthalic acid route offers more direct, possibly cheaper, path to polyesters - letter	Mar.	9	58					
Tires and textiles brighten polyester fiber outlook (table)	Mar.	30	10					
Polyesters - Polyester-urethane foam patent - licensing policy and royalty fees set	Feb.	9	83					
<b>Polyethylene</b>								
Cable coating resin	Jan.	26	92					
Chlorinated polyethylene polymer improves polyvinyl chloride's impact strength	May	18	63					
Conventional PE prices	Feb.	2	58					
Encapsulated cellulose products plant start-up	June	22	50					
Extrusion-grade paper coating resins - prices	Jan.	12	72					
European marketing of Pol-Em polyethylene emulsions	June	15	98					
High-density PE is being tried for motor oil containers	Apr.	6	90					
High-density PE prices	Jan.	5	59					
High-density polyethylene resin	Feb.	9	49					
Japanese prices	Mar.	2	61					
New markets: missile casings and beer cartons	Jan.	12	72					
Packaging triggers film boom (charts & table)	May	11	73					
Polyethylene-lined drum launched (table)	Jan.	19	35					
Polymeric family is essentially chlorinated polyethylene	Mar.	9	61					
Polymer PE faces bright future	Mar.	16	71					
Resins for extrusion-coated paperboard - market forecast	Apr.	27	72					
Polyformaldehyde - Patent dispute ends	May	11	19					
Polymerization - National Lead shows off commercial plant for in-situ polymerization of ethylene on cellulose fibers	June	29	43					
<b>Polymers</b>								
Acrylonitrile and alpha-olefin copolymers	June	29	47					
Anionic water-soluble polymer for use as latex system dispersant	Feb.	23	94					
Aqueous polymer dispersion, Rhoplex B-47	May	25	44					
Biological polymers field covered by new journal	Feb.	23	110					
Chlorinated polyethylene polymer improves polyvinyl chloride's impact strength	May	18	63					
Chlorinated polyethylene series	Mar.	9	61					
Elastomeric polymers patent swap between Dunlop Rubber and Montecatini	Feb.	9	68					
Ethylen-propylene copolymers and terpolymers may find place in automotive applications	Jan.	26	86					
Nitrile polymer, Chemigum N625X	Feb.	2	66					
Research project serves industry with polymer development and know-how	Mar.	16	23					
Self-cross-linking acrylic copolymers	Mar.	2	42					
Styrene-acrylic copolymer for floor sealer formulation	June	22	74					
Polyolefins - Shift to domestic output in polyolefins	Apr.	13	25					
<b>Polypropylene</b>								
Carpet lineup grows	Feb.	16	57					
Dyeable continuous filament, tow and staple made from a Shell resin	Mar.	23	77					
Dyeing problem solved	June	15	79					
Escon line has four new grades	Mar.	16	83					
Fiber makers push carpet and knitwear sales	June	1	122					
Fibers go commercial in hosiery and sweaters	June	8	24					
Fibers in three new colors	June	22	74					
Film capacity boost by Hercules Powder	June	29	57					
Film prices	June	8	60					
Japanese prices	Mar.	2	61					
New antioxidants for polypropylene are payoff of plastic stabilizer probe - letter	Mar.	30	51					
New contender for carpet sales (charts)	Apr.	27	7					
Packaging triggers film boom (charts & tables)	June	29	61					
Patent cross-licensing breakthrough	May	11	21					
Patent issue - Montecatini wins round in Austria	June	15	21					
Patent situation grows increasingly complex (chart)	Mar.	23	78					
Pipe, valves, fittings, pumps are lined with polypropylene	Jan.	19	72					
Prices	Mar.	5	59					
Prices in United Kingdom are tumbling	Mar.	6	72					
Prices of polypropylene staple and tow	May	11	70					
Search for dyeing system pays off in spite of new products (table)	Apr.	13	33					
U.S. film drops film and fiber imports	Apr.	13	25					
<b>Polypropylene oxide</b>								
Epoxyes: new entry in rubber (table)	May	18	39					
May capture major spot in synthetic rubber field	Jan.	26	69					
Rubber research	May	4	55					
<b>Polystyrene</b>								
Dow offers four specially priced resins to meet discount competition	Mar.	16	72					
Dow tries to clarify price-quality muddle	Mar.	23	101					
Expandable polystyrene markets may get boost from new line of radio-frequency molding equipment	Apr.	27	71					
Japanese company will build plant at Hazleton, Pa.	Mar.	16	20					
Japanese film will complete plans on U.S. project within four weeks	Jan.	19	62					
Japanese government okays Sekisui's U.S. project	Apr.	13	80					
Prices	June	1	123					
Resale arrangement between Catalin and Dow terminated	Mar.	9	71					
Will retain major share of refrigerator and freezer market	Jan.	12	71					
Polyvinyl alcohol - Two new partly hydrolyzed grades of PVA	June	22	74					
<b>Polyvinyl chloride</b>								
Blow-molding techniques to be adapted to PVC	Apr.	20	6					
Building panel makers turn to distributors to market their products - letter	Feb.	9	29					
Chlorinated polyethylene polymer improves PVC's impact strength	Mar.	23	7					
Homopolymer PVC resin prices	May	18	63					
Japanese shortage develops	May	18	71					
Market outlook brightens (tables)	June	8	59					
Oil-resistant PVC sheet	June	1	131					
Powdered PVC resin vies with pelletized PVC	May	11	46					
Prices	June	29	70					
Prices of copolymers used in flooring and photographic records	May	11	69					
Resin prices	May	25	151					
Resins and compounds make bid for rigid vinyl applications	June	15	97					
Rigid PVC building panel markets will expand	Mar.	9	72					
Resins	Apr.	13	80					
Benzification method may double reserves at IMC's Carlsbad, N.M., mine	Apr.	20	76					
Big potash rush takes the field (tables)	Mar.	30	21					
- letter	Apr.	27	7					
California geothermal well could support potash production of 370 tons/day	Mar.	16	63					
California geothermal wells - negotiations for chemical recovery rights	June	1	92					
Closup of Kemco Potash Co.'s \$20-million project	Apr.	27	25					
Deliveries up in first-quarter	June	8	60					
Fertilizers: record crop in view (tables)	Apr.	20	101					
Solution mining of Saskatchewan potash moves closer to reality	Feb.	9	67					
Solution mining project in Saskatchewan - contract awarded	May	4	17					
<b>Spot shortages are developing</b>								
West German industry hurt by severe competition	June	22	62					
World demand up	Apr.	27	82					
Potassium citrate - Prices	May	11	69					
Potassium metaphosphate - Low-cost process debuts	Feb.	2	45					
<b>Powder Metallurgy</b>								
Cobalt powder	Mar.	2	41					
Powdered metals - report (charts & table)	Mar.	23	83					
- letters Apr. 13-10, Apr. 20-10	May	4	12					
Sponge-iron powder process - Czech report	Mar.	2	50					
<b>Power</b>								
Geothermal well in California contains large quantities of minerals	Mar.	16	63					
Geothermal wells in California - negotiations for chemical recovery rights	June	1	92					
Memphis rejoins TVA power system	June	26	25					
Power supply units	June	29	39					
TVA signs new power pacts	Jan.	12	24					
"Unipolar" generator sold to Mallinckrodt for continuous production of direct-current power	Feb.	9	68					
Pregnancy - Two-hour test kit	Apr.	27	59					
<b>Prices</b>								
Antitrusts keep plugging on price fixing (table)	Feb.	23	39					
Middle-of-profit picture reflects decline in chemical prices (charts)	June	8	21					
Prices: grounds for optimism? - Business benchmarks	Mar.	2	78					
Quality stabilization bill opposition	June	15	33					
Trisodium phosphate price fixing complaint - eight firms and MCA sign consent order	Jan.	19	19					
Trisodium phosphate price fracas re-emphasizes illegality of collusive basing-point and zone-delivery prices	Jan.	26	21					
Printed Circuits - Ammonium persulfate may find use as etchant on boards made with tin-nickel wire	Jan.	26	25					
Printing - Pressureless printing - new electrostatic printing process	Mar.	23	78					
Promethium-147 - Largest and purest quantity of material ever prepared	May	18	67					
<b>Propellants</b>								
Air Force discounts reports of propulsion problems with Minuteman	May	11	30					
Beryllium-containing solid rocket propellants	May	25	113					
Computers cut costs of destructive testing for rocket propellant maker	Apr.	27	66					
Esso's solid-rocket propellant contract renewed	Jan.	19	51					
Nitroplastizizers to be used in Navy's Polaris program	Feb.	16	48					
Nitroplastizizers will give extra zip to fuel for Polaris A-3 missile	Feb.	23	150					
Rocket fuel makers jockey for position to be ready when new contracts come through	Jan.	5	17					
Solid-fueled booster demonstration contracts	Apr.	27	30					
Space budgets are due for a boost in fiscal '64	Jan.	5	17					
Static testing of large solid-fueled boosters will come in '64	Jan.	26	32					
Stepped-up spending powers gains in solid and liquid propellants	Apr.	20	39					
Thiokol bids for share of solid-fuel booster contracts, builds \$10-million propellant plant in Georgia	Jan.	19	24					
Propylene - Market forecast by AICE	Mar.	30	68					
Propylenimine - Competes with ethylenimine	June	29	23					
<b>Proteins</b>								
Enzyme - hydrolyzed proteins	June	22	73					
Hydrocarbon fermentation research booms (tables)	Feb.							

Lubrication pump	May 1	47	Government pushes for bigger water-research programs	Mar. 2	27	Self-cross-linking resins called X-Links	Mar. 2	42
Metaling pumps	Feb. 24	46	Grace will quadruple government research effort	Feb. 9	68	Silicone resins improve semiconductor performance	June 1	108
Pump car for oil and chemical spills	Apr. 27	56	High-altitude flight research	Mar. 23	39	Specialty blending resin, Pliovic M90, for use in plastics	May 25	114
Test pits offer fast pump check	May 18	67	Houston scientific and technical information center planned	Mar. 16	64	Synthetic resin remover, Polysol (table)	June 15	52
Purchasing — Equipment purchasing is speeded by contractor's new paperwork plan	May 4	23	Insecticide researchers seek new "nontoxic" controls	Feb. 9	55	Thermoplastic resins called Meldin Resins.	Apr. 6	26
Pyrethrum — Demand is rising but world politics cloud supply outlook (map) — letter	Feb. 16	51	Irradiation services section set up by GE	Feb. 23	110	Thermosetting resins research spawns new family of monomers	Apr. 6	102
Pyromellitic acid — Outlook	June 15	5	Marketing calls the tune — Viewpoint Minnesota — luring new fabs to the Twin Cities (table & map)	Feb. 23	5	Urethane resins for use in protective coatings	Jan. 5	42
R	Feb. 23	129	Monsanto separates research and engineering functions	May 4	43	Vinyl acrylic resin	May 11	48
Radiation	Mar. 2	53	Natural resources — Kennedy recommends new emphasis on research	June 8	48	Vinyl coating resin, Elvax 260	April 6	101
FDA approves radiation-purified bacon	Mar. 23	110	Nonradioactive lab licenses Prolin rodenticide to two firms	Jan. 19	30	Vinyl resin prices	Mar. 2	42
GE sets up irradiation services section	May 11	84	Nonprofit research foundation and FMC establish glass technology laboratory — letter	Jan. 5	42	Resorcinol — prices	June 15	97
Labor supports "threshold" radiation protection	Mar. 23	107	Nonprofit research institute organized in Minneapolis	Jan. 9	41	Respirators — Dust respirator	June 1	121
Labor unions demand stricter safety measures	Apr. 20	38	Ribonucleic — Partial laboratory synthesis has been achieved	Feb. 7	7	Ribonucleic acid	June 1	107
Plant to process irradiated fuel elements from nuclear reactors is a step nearer reality	Apr. 27	55	Rice — New process converts rice hulls into feed and fertilizer called Deltix	Mar. 30	50	Rivets — Self-sealing rivet	June 15	83
Radioactivity	Jan. 19	19	Nonradioactive lab — Self sealing rivet	June 15	80	Rockets	Mar. 16	63
Carbon-14 radioactive gases	Mar. 23	35	Ontario Research Community under construction	May 25	64	Boron fiber for use in winding experimental rocket cases	June 22	49
First state-owned radioactive waste burial ground to be built in Kentucky	May 18	67	Paintmakers try cooperative research	Feb. 23	123	Centaur may use ozone difluoride as igniter	Jan. 5	17
Radiochemicals — Carbon-14-tagged chemicals	Feb. 9	7	Personnel shortages pinpointed by survey	Jan. 26	77	Fuel makers jockey for position to be ready when new contracts come through	Jan. 26	32
Radios	Mar. 9	55	Polypropylene boom spurs research on plastic stabilizers	Mar. 30	51	NASA will conduct conference on future space program plans	Mar. 30	27
Cobalt-58 isotope	May 18	67	Polypropylene dye research leads to spate of new products (table)	Apr. 13	33	Project Rover delay	Apr. 20	39
Highly purified promethium-147	Feb. 9	7	Pregnancy test kit	Apr. 27	59	Propellant research gets push from new self-snuffing solid motors	Apr. 27	30
New processes using isotopes add impetus to market — letter	Mar. 6	101	Scientists snuff out 4-in. rocket motor burning highly aluminized propellant	Feb. 9	28	Solid-fueled booster demonstration contracts	Jan. 19	24
Railroads	June 22	18	Research and development outlays for '63	June 15	27	Thiokol builds \$20-million solid-rocket-fuel research center in Georgia	June 8	5
Air-handled bulk shipping gains new adherents	June 29	28	Research parks offer special concessions to attract customers (table)	Mar. 16	23	Walk, don't run to the moon — Viewpoint	Jan. 5	42
Freight rate increase is in effect	June 29	27	Resin research group serves industry with development and know-how	Apr. 20	39	Rodenticides — Prolin rodenticide licensing agreements	Mar. 9	77
Kennedy exerts pressure to avert strike	June 22	18	Rocket propellant research gets push from new self-snuffing solid motors	Apr. 6	69	Rubber	Jan. 5	36
Labor dispute — Kennedy extends deadline	June 22	21	Scientists revive dormant microbiological specimens from tomb in Guatemala	Jan. 12	47	Acrylic rubber, called Cyanacryl, and new urethane elastomer bid for share of specialty rubber pot	Jan. 26	32
Sinking rail rates augur shift in chemical shipping patterns (table)	June 22	21	Semiconductors — new compounds broaden markets (table)	June 29	28	Acrylonitrile rubbers, Chemigum N300 and Chemigum N615; polybutadiene elastomer, Plioflex 5000	June 8	78
Rare Earths — Toluene and xylene solutions of rare-earth materials for work with lasers	Apr. 6	101	Small research and development business failures due to lack of business orientation	Apr. 6	69	Army switches from synthetic to natural rubber in military tires	June 22	31
Rubber	June 22	61	Smith, Kline & French research expenditures	Mar. 9	84	Auto pace livens rubber sales — Business benchmarks	Apr. 27	88
Imports up, no major expansions in sight	Apr. 13	79	Solid-state data center	Feb. 23	135	Canada's Polymer Corp. zeroes in on U.S. rubber market	Mar. 23	36
Prices of rayon staple fiber	Apr. 27	59	Struthers Scientific International puts premium on flexibility	June 22	56	Consumption runs ahead of forecasts — Business benchmarks	May 18	59
Razor Blades — Stainless steel razor blades are fluorocarbon-coated	Apr. 27	59	Superconducting magnet race resumes	Mar. 2	5	Controlled-structure styrene-butadiene rubber, Solprene X-40	Apr. 6	69
Reactors	June 22	61	A target for cost cutting — Viewpoint	Jan. 12	27	Depolymerized rubber for gasket applications	Mar. 23	36
Atomic power costs are lowest yet in new Canadian reactor proposal (charts)	June 8	33	Tax break for spending on research and development considered by House	Jan. 5	42	Epoxydites: new entry in rubber (table)	May 18	59
Canadian company considers 405-megawatt units	Apr. 27	60	'Technological absolutes' of scientists and engineers threatens CPI (chart)	Mar. 2	5	Ethylene-propylene copolymers and terpolymers may find place in automotive applications	Jan. 26	86
Combination pipeline-reactor envisioned	Apr. 27	59	Textiles research, federal aid proposal — Sparks help in textiles — Viewpoint	Jan. 5	5	Ethylene-propylene terpolymers — cyclooctadiene is latest candidate for third monomer	May 18	63
India and U.S. are close to agreement on nuclear power reactor	Mar. 23	40	Thermal films focus on vast data storage market	June 1	125	Flame retardant, Dechlorane, for ethylene-propylene rubber	Feb. 16	48
Solution of corrosion problems clears way for organic-cooled nuclear reactors (table)	Apr. 20	69	Thermosetting resins research spawns new family of monomers	Jan. 5	42	High-cis polybutadiene rubber marketing in Britain	Mar. 23	23
Rectifiers	Mar. 16	83	Too much government R&D? — Speech by Samuel Lenthal — Viewpoint	Mar. 20	5	Labor negotiations emphasize job security (charts & table)	Feb. 9	18
Silicon rectifiers	May 11	47	Trachoma vaccine clinical trials — results of Navy tests	Mar. 30	5	Organic peroxide cross-linking agents for vulcanizing rubber	June 15	103
Transformer-rectifier unit called Rectoformer	Mar. 16	83	Ultrasonics research agreement	Jan. 5	46	Outlook for '63, according to J.W. Keener, cis-Polybutadiene makes strong bid for tire market	Apr. 13	69
Refining	Apr. 20	74	UViolet light sources research	Feb. 23	114	Polypropylene oxide rubber may capture major spot among synthetics	Jan. 5	63
Catalyst cleaning process, Met-X — separation process is key	Feb. 9	27	University official asks industry to take strings off research grants	Mar. 9	82	Polypropylene oxide rubber research	May 4	55
Cuban refineries are in serious trouble	June 29	48	Wash and wear properties achieved with new cross-linking agent	June 22	24	Room-temperature-vulcanizing silicone rubbers	Apr. 27	55
Hydrocracking process gets first takeoff	Mar. 30	49	Washington, D.C. may become major science center	May 18	46	Rubber-processing chemicals' market in '62	June 1	142
Reforming — Autothermal, or adiabatic, process draws U.S. interest	May 4	63	Water resources research bill passed by Senate, heads for trouble in House	Mar. 9	84	Silicone rubber	May 11	48
Refrigerants — Fluorocarbon refrigerant markets are in turmoil	Mar. 2	55	Water-soluble gum developed by USDA	Feb. 9	62	Silicone rubber for encapsulating motors	May 18	67
Refrigeration	Jan. 12	61	Wisconsin's proposed state research institute for industry — opposition	Apr. 13	26	Stereo rubber know-how licensed to Japanese firm	May 18	18
Nitrogen-freezing-food system, Cryo-Guard debuts	Mar. 23	72	Wesco shifts to the offensive via central research lab	May 25	66	Rumania	May 15	61
Underground freezing technique will be used in gas storage cavern	Mar. 2	55	World's most powerful continuous beam of light	Apr. 27	72	Man-made fibers production	June 18	37
Rosin	Mar. 23	69	Rosins	Apr. 27	71	Soda ash plant to be built by German firm	Mar. 2	95
Alpha-olefins set sights on variety of markets (table)	Jan. 12	61	Alkylated hydrocarbon polymers	June 22	74	Ammonia plant put on partial computer control	May 18	29
American cockroach sex lure pinpointed by USDA	June 29	41	Bakelite vinyl coating resin called VAGD	Feb. 2	62	Baybakov, Nikolai — new head of chemical effort	Feb. 23	110
Biochemical fuel cell research (table)	Feb. 23	110	Can-lining business: high-priority target for profit-minded resin research (table) — letter	Mar. 16	12	Biological sciences expansion program	May 4	38
Biological sciences get new push in U.S. and U.S.S.R.	Mar. 9	77	Dow offers four specially priced polystyrene resins	Mar. 16	72	Boosts production of "big inch" pipe in preparation for NATO embargo	Feb. 23	48
Chemicals-world research agreement between Dow and Weyerhaeuser	May 18	39	Epoxy resin curing agent	Jan. 26	92	Chemical industry fails to fulfill its plan	June 22	24
Cold vaccine research by five British organizations	Mar. 16	64	Flexible epoxies called Isochemrez	June 29	39	Chemical planners set sights on 17-fold growth from '60 to '80	June 22	37
Drug industry R&D feels first impact of new government controls	June 22	53	Flexible phenolics called Tetraflex	Feb. 9	68	Construction planners to make new list of priority projects for seven-year plan	Mar. 2	34
Elastomers: two new products debut	Mar. 9	77	Floor polish resins	Jan. 5	36	Eastern European bloc (Comecon) — chemical industry development plans	Jan. 19	66
Epoxides: new entry in rubber (table)	Feb. 2	49	Flow promoter for laminating resins	Apr. 27	55	Foreign forecast — report (charts)	Jan. 23	36
Esso Research plans closer ties between research and corporate policy	Mar. 9	78	Fluorocarbon resins outlook brightens (chart)	Mar. 12	72	Polyethylene expansion plans	Mar. 2	34
Federal funds for research projects — "misuse" case may lead to better accounting of funds	Feb. 2	31	High density polyethylene resin	Feb. 23	94	Reportedly negotiating with Japanese chemical company for acrylic fiber manufacturing equipment	Jan. 26	53
Fermentation processes feed on low-cost petroleum raw materials (tables)	Feb. 2	49	Nylon molding resin prices	Mar. 30	60	Sheikou for lagging chemical industry — Nikolai Baybakov will head industry committee	Mar. 23	25
Flame retardants for plastics and foams are target of volley of research activity	Feb. 23	105	Polyethylene paper coating resins — prices	Jan. 12	72	Shopping in West for plants and equipment	Apr. 27	82
Fluoroketones: family of new chemicals bids for jobs	Mar. 2	47	Polyethylene resins for extrusion-coated paperboard — market forecast	Apr. 6	101	Rust — Rust remover, Control Rust Remover	Jan. 5	36
Forecast for next five years: fast growth (chart)	Apr. 20	25	Polyethylene resins for high-speed extrusion coating	Apr. 27	72			
Government moves to free research results to industry (table)	May 25	57	Polyethylene wire and cable coating resin	Jan. 26	92			
			Polyformaldehyde patent dispute ends	May 11	19			
			Polypropylene dye research pays off in spite of new products (table)	Apr. 13	33			
			Polyvinyl alcohol resins	June 22	74			
			PVC resins and compounds bid for rigid vinyl applications	Mar. 9	72			
			Polyvinyl chloride resins marketing push	June 29	70			
			Printing ink resin, Polymid 1144	Apr. 6	101			

## S

## Safety

Be prepared for disaster - Viewpoint  
Chlorine safety campaign launched, novel emergency kits offered  
Fireproof centrifugal compressor is water-lubricated  
Labor supports "threshold" radiation protection  
Labor unions demand stricter radiation safety measures  
Lightweight protective clothing  
MCA figures on '62 safety record  
Management puts spotlight on spillage  
National Safety Council plans revisions of rulings for counting injuries  
New Jersey court ruling on accident reporting could be costly  
Noise is growing concern in plant safety programs  
Nuclear Safety Information Center established  
Plastics hazards  
Study probes effectiveness of safety leaflets, posters and films  
Salt - Dry acid salt, Actane 82, for treatment of die castings prior to plating

## Samplers

Air sampler  
Gas sampler, Auto-Scanner  
Screws - Tubing set screw  
Scrubbers - Fume scrubbers  
Sealants - Building Sealant 780 to be handled by distributor  
Sealers - Styrene-acrylic copolymer for floor sealer formulation  
Seals - Metallic ring seals  
Selenium - Prices

## Selting

Airwick moves to recoup top sales spot  
American Marketing Assn. forms Chemical and Allied Industries Section  
Automotive specialty chemical product sales down  
Barbers aim for bigger cut of men's toiletries market  
Bleach brightens chlorinated cyanurate market outlook  
British producer of perfuming compounds moves into open market  
Can-lining business: rugged new resins may revive rough-and-tumble (table)  
Carbon dioxide propellants marketing agreement  
Chrysler opens drive for industrial specialties sales outside auto field (table)  
Consumer testing group will issue "Seal of Quality"  
Door-to-door selling of household cleaning agents and swimming-pool products  
Drug firm aims for higher earnings by boosting direct sales  
Drug industry sales and earnings: both up in '62 (table)  
Drug industry's marketing patterns are changing  
Drugmakers report sales and earnings  
Drugs - North Dakota curbs discounters  
European compressor valve specialist seeks U.S. sales  
GAF sale  
Delay reported  
Keating and Katzenbach confer  
Negotiated settlement may be in the making  
Settlement  
Criticism of settlement  
Timetable for sale  
Interhandel approves deal  
Garden chemicals newcomer: Heritage House GAF chalks up new sales and earnings gains  
Grace reports on sales and earnings  
Hercules heads for harder sell under Henry A. Thouron

Kawecki Chemical charts new marketing maneuvers  
Kelly Girl Service launches program to supply temporary personnel for sales campaigns  
Lawn care service ties in with fuel oil dealers to buck do-it-yourself trend  
Listening courses: new approach to selling letter  
Marketing calls the tune - Viewpoint  
Motion pictures boost CPI sales  
Nylon-6 fiber promotion by Allied  
Olin charged with concealing kickbacks in drug sales involving U.S. foreign aid funds  
Paint group backs proposal to ban manufacturers from selling at retail  
Panama launches product-testing program  
Pesticides - report Oscar Johnson & others (charts & tables)  
Pt. 1. Insecticides, miticides, nematocides, rodenticides  
Pt. 2. Fungicides and herbicides  
Pharmaceutical industry sales forecast  
Phosphate ester surfactants: growing strong (tables)  
Photocopying - pay-as-you-copy plan initiated  
Polyvinyl chloride building panel makers seek best door into construction market  
Powdered polyvinyl chloride resin vies with

pelletized PVC  
Printing ink sales roll up records  
Proctor & Gamble makes its pitch in Europe (table)

Product development teams offered by West Coast distributor

Product managers take on bigger role in corporate planning (table)

Profitability plateau reported in FTC-SEC survey

Prolin rodenticide to be sold by Prentiss and Penick

Pyrethrum insecticides promotional push is tied to "Silent Spring" safety pitch (map)

Regional sales managers head profit centers, win bigger voice in corporate policy

Sales and earnings - fast start on '63 track

Sales and earnings - financial trends for '62 companies (table)

Sales and earnings - new peaks in '62 (table)

Sales and earnings - profits won't keep pace (charts & table)

Sales and earnings - roundup of '62 reports (table)

Sales - outlook for CPI to '66

Soap and syndet sales set another record

Soap and synthetic detergent sales rise again

Sodium carbonate in hollow, porous-shell particles - sales campaign

Spanish-speaking buyers - target for specialists marketers (table)

- letters

Specialties - one-stop stores shape future of specialties sales

Stein, Hall moves from commodities to chemicals

Swapping gains favor among fertilizer companies

Swimming pool business is in the ascendancy again

Swimming pool market heads for more growth in '63 (table)

Synthetic fibers roll up rug sales (charts)

A target for cost cutting - Viewpoint

Tobacco process seller

Toilet good sales over \$2 billion mark

Touring engineers will self corrosion control systems

U.S. Rubber joins billion-dollar sales circle

West Virginia Pulp and Paper boosts chemical sales 15%

May 25 99

Semiconductors

H610 process-control computer systems are first to use silicon semiconductors

Lopix silicon crystals are suitable for all semiconductor uses

New compounds broaden markets for semiconductors (table)

New lift for semiconductors: large silicon crystals, silicon carbide for electronic use

Feb. 2 64

Separation

Freeze-concentration processes bid for new chemical separation jobs (table)

Molecular sieves score big gains in hydrocarbon separation jobs (chart)

Novel process uses electrical field to break oil-in-water colloidal suspensions

Separators - Magnetic separator

Septic treatment

Detergent biodegradability - new firm evaluates formulation

Pasteurization process treats sewage effluent to make it potable

Plant to remove alkyl benzene sulfonate from sewage moves closer to reality

Stanford University study points way to reclaiming water from sewage effluent

Shale oil - Interior Dept. weighs oil shale bids

Shampoo - Druil surfactant for use in shampoos

Shaving Creams - Aerosol shaving cream patent suit settled

Shellac - India loses share of U.S. market to Thailand

Jan. 26 26

Shipping

Air-handled bulk shipping gains new adherents

Airline rates for monkeys rejected by CAB

Arkansas River basin development program

Barge-rail rate dispute - Supreme Court ruling

Bulk commodity definition will not be changed

Bulk commodity rate exemption sought for aluminum

Bulk handling gets boost from two new rail tank cars

CPI comments on controversial transportation bill

Fishyback's ships set trend in water transports

"Gray areas" trucking practices attacked

Gulf Coast waterway expansion program opens new areas to low cost water transportation

- letters

ICC considers tighter regulations covering construction of tanks used to transport dangerous liquids and gases

ICC considers tighter safety rules for trucks hauling dangerous products

Ice and floods disrupt shipping in upper Ohio River Valley

Ice slows chemical movements along Mississippi

Powdered polyvinyl chloride resin vies with

June 15 25

May 25 71

May 25 101

May 25 117

June 1 55

Mar. 9 28

Feb. 9 71

Feb. 2 64

Feb. 9 29

Labor disputes - battle over compulsory arbitration bill leads to plan to lift ban on U.S. use of foreign-built ships

Longshoremen strike legacy

Longshoremen's strike - impact on chemical shippers has varied

Molten sulfur will soon be in transatlantic European trade

Nuclear-powered ocean-going fleet in sight

Ohio River flood conditions are improving

Polyethylene-lined nonreturnable drums facilitate return

Railroads will expand efforts to bring piggyback rates down to near level of flatback rates

Rate increases threaten shippers (table)

Steamship companies propose dual rate system

Sulfur shipments to be made by Mexican vessels

TVA improves Hiwassee River

TVA waterways extended

Tanker Marine Sulphur Queen - Congressional bill to help offset loss

Tanker Marine Sulphur Queen litigation

Tanker Marine Sulphur Queen loss shakes sulfur trade

- letter

Tanker Marine Sulphur Queen lost at sea

Transportation policy undergoes major upheaval that may result in lower costs, heavier railroad use by CPI (table)

Transportation program back before Congress

Jan. 26-31

Transportation program - Congress works out compromise

Transportation proposals - shippers campaign for new policy

Truck transportation rules may be changed

Weather plays hob with U.S. and European CPI

## Shoes

Corfam polyester fiber shoes

Synthetic vs. leather for shoe-upper market

June 15

May 25

51

June 15

May 16

27

May 11

29

May 18

31

Feb. 2

25

May 11

48

Apr. 27

56

Apr. 11

48

Apr. 27

56

Apr. 11

48

Apr. 27

56

Apr. 11

48

Sodium sulfide - Prices	Mar. 9	72	<b>Sulfur</b>					
Solar Energy - Thin-film deposition technique makes solar cells	June 22	50	Detergent makers eye direct-sulfonation process	June 29	51	Sen. Douglas will sponsor amendment to give the President authority to reduce tariffs by 100%	Apr. 27	30
Space-suits			Marine Sulphur Queen - Congress introduces bill to help Texas Gulf Sulphur offset loss	Mar. 16	27	Stainless steel imports flood U.S. market because of loophole in tariff schedules	Feb. 23	62
Trade secrets case - decision near	Apr. 27	38	Marine Sulphur Queen loss shakes sulfur trade - letter	Feb. 23	89	Symington, Stuart, urges go-slow approach to cutting tariffs on chemical imports	June 22	29
Trade secrets case - Goodrich is victor	June 1	30	Marine Sulphur Queen loss - Texas Gulf Sulphur will use Mexican vessels for shipments	Mar. 16	12	Tariff cuts are coming within three years	Mar. 23	24
<b>Solvents</b>			Marine Sulphur Queen lost at sea	Mar. 30	28	Trade Adjustment Assistance Provision to be tested by sodium gluconate producer	June 8	29
Chlorinated solvent market outlook: bright charts)	Jan. 5	61	Mexican sulfur producers did relatively well in '62	Feb. 16	58	U.S. chemical traders gain for upcoming GATT and UN tariff talks; U.S. commodity reclassification (table)	Jan. 12	21
Darco Filter Blend keeps solvent clean	Jan. 26	92	Molten sulfur will soon be in transatlantic European trade	Mar. 23	18	U.S. distillers seek restoration of duty on Canadian whiskies	Mar. 9	28
Fluorocarbon solvent prices	May 11	69	Price drop in world trade may be on the way	Mar. 2	75	Vanillin makers lose bid for tariff relief	Apr. 27	72
Sonics - Sonic generators tackle new chemical processing jobs	Jan. 19	31	Texas producers get tax break	Feb. 2	20	<b>Taxation</b>		
Soybean oil - Prices	Feb. 2	57	Texas sulfur tax cut proposed	Feb. 2	57	Commerce Dept. surveys use of new depreciation guidelines	Apr. 13	29
Space Research - Biological fuel cells charge up for aerospace applications (table)	June 29	41	U.S. and Canada discuss imports	June 29	18	Consulting engineers may get tax break	June 1	53
<b>Spain</b>			U.S. industry holds world lead (charts)	Apr. 6	21	Depletion allowance hearings - industry will voice opposition to changes	Mar. 16	19
Antimonopoly law	May 11	28	World production up	Mar. 23	98	Depletion allowance proposals	Feb. 2	31
Bids for station on trans-Mediterranean gas pipeline to bolster strength in petrochemicals, establishes new industrial investment base	Mar. 9	34	<b>Sulfuric acid</b>			Depletion allowance proposals shock oil and gas industry	Feb. 2	17
Foreign capital investment limits withdrawn for projects in plastics and resins	May 4	38	British production reaches new peak	June 1	32	Depletion allowance ruling in ground water case	Feb. 2	22
Naphtha-cracking project - engineering contractor bids	June 15	18	Dry sulfuric absorbed in Micro-Cel E used in an oil well drilling mud	Jan. 12	61	Depletion proposals - House Ways and Means Committee decides to go along with Administration part-way	June 29	17
Petrochemical and fertilizer projects - minimum required capacities announced	Apr. 6	51	Prices	May 4	63	Depletion reforms rejected by House Ways and Means Committee	June 15	17
Petrochemical project gets foreign backing Spanish-speaking buyers target for specialties marketers (table) - letters	Apr. 27	18	<b>Superconductors</b>			Depreciation allowances study by AEF	Jan. 12	17
Spanish-speaking buyers target for specialties marketers (table) - letters	May 11	62	Columbium-zirconium alloy in four different compositions	Mar. 9	55	Depreciation revision and new tax credit give business a \$2-billion/year tax saving	June 22	29
June 29	7	Cryopak compact, superconducting magnet system	Mar. 23	78	Excise tax cut talks toned down	Feb. 23	62	
Spectrophotometers - Atomic absorption spectrophotometer suitable for process control analysis	Mar. 9	70	Magnet race resumes	June 22	56	Expense accounts - final rules are in effect	Jan. 5	32
Spheres - Glass spheres for use as reflectorized road signs	June 15	52	Magnetohydrodynamic generator has been coupled with a superconducting magnet	Jan. 19	52	Expense-account rulings to go into effect without major changes	May 25	72
Spillage - CPI puts spotlight on spillage	June 8	71	Niobium-zirconium magnet provides room-temperature magnetic field	Jan. 5	45	Florida considers severance taxes on phosphate and wood pulp	Apr. 13	42
<b>Stabilizers</b>			35,180-ft. superconducting wire of columbium and zirconium	Apr. 6	69	Government urges industry to modernize plants using new tax benefits	Feb. 16	22
Bear stabilization product FDA approves Polygard stabilizer used in rubber and plastics for applications involving contact with food	Feb. 9	50	200-lb. superconducting magnet system requires almost no power input	Mar. 23	78	IRS removes AATCC from scientific listing	Mar. 23	112
Polypropylene boom spurs research on plastic stabilizers	Mar. 9	61	<b>Surface-active Agents</b>			Kennedy will specify tax reductions he wants in January messages	Jan. 12	27
Vinyl stabilizers	Feb. 30	51	Abeix line for floor waxes, paper coatings etc.	June 8	64	Needed: plain talk on taxes - Viewpoint	Mar. 23	5
Stanford University - Dept. of Chemistry - William Johnson asks industry to take strings off university research grants	Feb. 2	66	Amine oxide surfactant	Feb. 9	49	1962 sales and earnings hit new peaks with minor help from new tax rules (table)	Feb. 2	21
<b>Starches</b>			Anionic surfactants, Larysol Aviroil and Standapol series of SCP surfactants	Jan. 12	43	Pentagon to decide whether Long amendment applies to defense contracts	Apr. 13	29
Amylose starch, Amylon VII	May 11	47	Cationic surfactants, Monazolines	Apr. 13	91	Research and development spending tax break considered	Jan. 12	27
Cationic starch	Feb. 23	94	Coin-op surfactant, Super-Stat 100	Jan. 12	43	Steel price increases may hurt tax-cut plans	Apr. 27	30
<b>Steel</b>			Druid line of shampoo raw materials	June 8	64	Tax credit reform gets industry vote as way to hyped plant investment (table)	Apr. 27	36
General price increase can be ruled out for	Apr. 20	17	Nonionic surface-active agent called Zonyl Phosphate esters: growing strong (tables)	Feb. 9	71	Tax cut drive threatened by demands for tax reform	Jan. 5	31
German firm develops tough new nitrogen-containing steel	Feb. 23	156	Phosphated ester surfactants called Rozak Zonyl, potent new surface-active agent	Apr. 20	84	Tax-cut proposal - outline is before Congress	Jan. 19	29
Good news in copper and steel - Business benchmarks	Jan. 5	76	<b>Sweeteners</b>			Tax-cut proposals - effect of business rise	May 4	25
Labor negotiations may be reopened	June 1	23	Cyclamate sweeteners piracy case	Mar. 9	18	Tax cuts discussed at Business Council meeting	May 18	17
Labor settlement	June 29	17	New dietic drink could boost demand for synthetic sweeteners	Feb. 16	57	Tax cuts supported by Business Council	May 25	72
Modernization and relocation plans presage big chemical market changes (charts & map)	May 4	19	<b>Swimming pools</b>			Tax reduction fever runs high in Congress and CPI (table)	Jan. 19	23
Oxygen tanks discontinued by steel firm	Apr. 20	74	Algicide, Algimaster W-50, available for repackaging under private label	Apr. 27	52	Tax reform proposals - Congressional opposition	Feb. 2	31
Price increases may hurt tax-cut plans	Apr. 27	30	Chlorinated cyanurates gain favor in swimming-pool market	Mar. 2	63	Texas' "dedicated reserves" tax on natural gas is unconstitutional	Mar. 2	18
Primary metals buildup in Southwest (map)	Mar. 2	24	Makers broaden their product lists (table)	Feb. 9	75	Texas sulfur producers get tax break	Apr. 13	20
Stainless steel imports flood U.S. market	Feb. 23	62	New pool construction report	May 25	104	Techneum - New method separates compound from spent nuclear reactor fuels	Apr. 6	70
Steel makes up for slow '63 start - Business benchmarks	June 15	114	<b>T</b>					
Steel runs strong, copper weak - Business benchmarks	Mar. 23	118	<b>Tanks</b>					
200 Series stainless steel cuts equipment costs 20%	May 11	38	Government sues to recover costs for raising liquid chlorine tanks from Mississippi River	Jan. 19	26	Bonding kits	Jan. 1965	39
<b>Sterilization</b>			ICC considers tighter regulations covering construction of tanks used to transport dangerous liquids and gases	Feb. 16	30	Filter cloth	Jan. 5	35
American cockroach sex lure pinpointed	Jan. 12	61	Marine Sulphur Queen - Congress introduces bill to offset loss	Mar. 16	27	Flexible, microporous Teflon in developmental stage	June 29	48
Researchers spotlight safer insect control: sex-lure chemosterilants - letters	Feb. 9	55	Marine Sulphur Queen Illicitation	Feb. 23	36	Television - Acrlan acrylic fiber maker sponsors two spectaculars	Jan. 19	37
Feb. 23	7	Marine Sulphur Queen loss shakes sulfur trade - letter	Feb. 23	89	Temperature control	Jan. 11	47	
<b>Stockpiles</b>			Marine Sulphur Queen lost at sea	Mar. 16	12	<b>Tennessee Valley Authority</b>		
AEC must find market for lithium stockpile	Apr. 13	30	Marine Sulphur Queen - Texas Gulf Sulphur will use Mexican vessels for shipments	Mar. 16	58	Hawasse River project	Jan. 19	38
Administration disposal plans for stockpile surpluses	Feb. 23	62	Truck trailer cargo tank specifications may be changed	Mar. 30	28	Memphis rejoins TVA power system	Jan. 26	25
Aluminum disposal plan in final stages	Apr. 20	38	Two new rail cars - one light, the other large	Mar. 23	39	Nitric acid plant builder chosen	Feb. 9	24
Aluminum sales are in the offing	May 11	30	Tape - Graphite cloth in tape form	Apr. 13	73	Signs new power pacts, extends navigation channels, steps up research on fertilizer products and uses Slurry fertilizer development	Jan. 12	24
Cadmium market price set	May 11	30		June 29	39		Jan. 19	61
Cadmium sale bill passes major hurdle	Mar. 16	28						
Cadmium sale bill - Rep. Broomefield presses for fast action	Mar. 9	27						
Cadmium sale - NAMF charges "unscrupulous profiteering"	May 18	72						
Cadmium sale will ease current shortage	Apr. 20	96						
GSA finds buyers for cadmium, tin and nickel inter surplus	May 18	25						
New legislation will go to Congress this year	Jan. 12	28						
Senate committee prepares report, OEP re-evaluates needs	Mar. 30	27						
Off-grade aluminum sale Mar. 2-28 Mar. 9-27, Surplus-in-disposal plan put into effect	Apr. 6	36						
Surplus-in-disposal plan put into effect	Apr. 6	36						
Symington prepares new bill	Feb. 9	28						
<b>Storage</b>								
Cabinet for storing petroleum compounds	Apr. 6	102						
Underground freezing technique will be used in East's first gas storage cavern - letter	Mar. 2	55						
Underground storage of liquefied natural gas - Philadelphia Gas Works project	Apr. 6	7						
Strainers - Pipeline strainer, Strain-O-Matic	May 11	60						
Strapping - Nylon strapping system for shipment of pallet loads	Jan. 19	65						
Strippers - Tin-plate stripper	Jan. 5	35						
Styrene - Market outlook for '63	Mar. 23	36						
Sulfonation - Sulfur to syndet processes vie for detergent makers' attention	Mar. 16	78						
June 29	51							

**Textiles**

Emulsion finish-binder, Polycryl 7-7-1	Jan.	12	43
Federal aid to textile research - Spark self-help in textiles - Viewpoint	Jan.	5	5
Finish called Rhopex K-3	Feb.	23	94
Safety fabric: fluorescent vinyl-nylon called Color-Guard	Mar.	2	41
Stain-resistant textile finish, Zepel	Jan.	12	71
Textiles, auto off to strong start - Business benchmarks	Apr.	13	98
Textiles find a happy surprise - Business benchmarks	June	1	146
Textiles: '62 record, '63 retreat - Business benchmarks	Mar.	9	88
Wash and wear properties achieved with new cross-linking agent	May	18	46
Theft - Tighten know-how theft laws - Viewpoint - letter	Jan.	5	7
Thermocouples - Swaged thermocouple with hot-junction tip	Apr.	27	56
Thioglycolic acid - Prices	Feb.	23	130
Tin - Bolivian tin company will supply raw material to Wan Chang	Feb.	9	25

**Tires**

Army switches from synthetic to natural rubber in military tires	Jan.	26	32
New synthetic rubbers remodel tire markets (charts & table)	June	15	103
Polyester fibers move on tire-cord markets (table) - letter	Feb.	9	83
U.S. Air Force - Research revamp	Mar.	2	7

**Titanium**

Boost in demand seems likely	June	29	58
Welding techniques spotlighted	Feb.	16	75

**Titanium dioxide**

Cyanamide's titanium dioxide via tetrachloride process patented	Mar.	2	56
Trade secrets battle - preliminary injunction bars Donald Hirsch from discussing details of Du Pont process	Jan.	12	84
MH-30 use criticized in USDA report	Mar.	2	18

**Tobacco**

MH-30 use reconstituted tobacco process seller	Feb.	2	64
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**Toiletries**

Barbers aim for bigger cut of men's toiletries market	Feb.	16	42
Sales went over \$2 billion for first time	Apr.	27	50
Toluene - Prices	June	22	62
Tooth cleaning tablets available in vending machines on West Coast	June	8	65
Totalizer - Solid-state totalizer (SST-1) called Pulsip	Feb.	16	47
Tracing - Electric heating system cuts costs of tracing process piping and equipment	June	1	115
Trademarks - Bayer-Sterling trademark suit decision	Mar.	2	28
Trading Stamps - Stamps used to push coin-op drycleaning units and drugs	Feb.	2	64

**Training**

CPI seeks cure for "technological obsolescence of scientists and engineers (chart)	Mar.	2	66
"Creative transportation managers" - goal of new college training program	June	8	52
Programmed instruction proves itself in chemical industry (table)	Apr.	13	38
Salesmen learn value of listening as a sales tool	Jan.	5	26
Transformers - Transformer-rectifier unit called Rectoformer	Mar.	16	83
Transistors - Optical transistor developed	Mar.	16	64
Translation - Experimental machine translates Chinese into English	June	8	47

**Transmitters**

Current and voltage transmitter	May	25	43
Pressure transmitter	June	22	73
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Bituminous Coal Research, Inc. - new method of ridding flue gases of sulfur dioxide	Jan. 5 45	Brush Beryllium Co. - accused of over-charging on missile subcontract	June 1 54	Carion Products Corp. - Sims, D. W., is new chairman; Conoco increases holdings	Jan. 5 22
Bjorksten Research Laboratories, Inc. - Bjorksten, John, opposes Wisconsin's plan to finance a state research institute for industry	Feb. 9 62	Bryant Pharmaceutical Co. - acquired by West Chemical Products	Mar. 16 26	Camegie Institute of Technology - engineering manpower data released	June 8 37
Research park established at Fitchburg, Wis.	Feb. 23 114	Buckeye Cellulose Corp. - chemical wood cellulose prices	June 29 58	Camell, Howland, Hayes & Merryfield - plant to remove alkyl benzene sulfonate from sewage moves closer to reality	Jan. 19 51
Black, Sivalls & Bryson - glass-fiber tank car debuts	Apr. 13 73	Butler Manufacturing Co. - utility building called Panl-Frame	Apr. 20 84	Carrier Corp. - Elliott Co. division, offers water-lubricated centrifugal compressor	Jan. 12 64
Mass flowmeter used for custody transfer	Apr. 13 94	Bunawerke Huels - financial report	Apr. 27 84	Carter Products - acquires 50% interest in Millmaster	Feb. 2 18
Blaw-Knox - builds waste water effluent plant for Goodrich-Gulf	June 15 18	Burgess Battery Co. - expands research program at Freeport, Ill.	Feb. 23 116	Aerosol shaving cream patent suit settled	Mar. 23 24
Freeze-concentration processes costs	June 1 98	Burman Oil Co. - partner in natural gas pipelines project	June 8 26	Negotiates for 50% interest in Millmaster Chemical	Jan. 26 18
A. Boake, Robert & Co. Ltd. - phosphate plasticizer prices	Feb. 23 57	Bush, W. J., and Co. Ltd. - benzoic acid plant will use volume oxidation process	June 15 61	Cary Chemicals, Inc. - Blacar PVC resins Expands research facilities at Raritan Township, N.J.	Mar. 9 72
Synthetic perfume chemicals plant to be built at Widnes, Lancashire, England	June 29 26	Busse - extrusion mixing process for phenolic molding compounds	June 8 24	Vinyl resin price hikes, expansions at Burlington, N.J. and Houston, Tex.	June 22 56
Boeing Co. - TFX controversy	May 18 25	Bzura Chemical Co. - Giordana, J.C., seeks financial help to get firm out of bankruptcy proceedings	Apr. 13 27	Cassella Farwerke Mainz AG - Netherlands dye venture announced	June 15 97
Vertol Divis. - self-sealing rivet	June 15 80	Switches to Chapter 10 Bankruptcy Act proceedings	Feb. 9 18	Catalin Corp. - polystyrene resale arrangements with Dow terminated	Jan. 12 57
Bohn Aluminum & Brass - Universal American acquires 62% stock control	May 11 26	CAH Industries - acquires business and inventory of McKeown Flexible Coating Co.	June 15 26	Catalysts and Chemicals, Inc. - developing catalyst for hydrogen production	Mar. 9 71
Boise Cascade Corp. - negotiating for Crown Zellerbach's paper mill at St. Helens, Ore.	June 15 26	CANDU - giant size atom plant offers lowest-cost power	June 8 33	New Jersey Zinc acquires interest	Feb. 2 41
Bolidens Grubu - acquires majority stock of Remmersholms Gamla Industri	Feb. 9 37	CEPSA - naphtha-cracking unit - engineering contractor bids	June 15 18	Catalytic Combustion Co. - becomes division of UOP	Mar. 16 26
Bolivian Mining Corp. - tin concentrates deal with Wah Chang Corp.	Feb. 9 25	CSRC-Dow Pty. Ltd. - financial losses reported	June 8 26	Celicote Co. - fume scrubbers	Feb. 2 26
Bon Ami Co. - sales and earnings; merger plans abandoned	June 29 24	Cabot Corp. - reveals finances to public for first time	Mar. 30 24	Celanese Corp. of America - Canadian Celanese stock plan	June 22 73
Bonded Structures Ltd. - Redux and Hidux adhesives to be distributed in U.S. and Canada by Shur-Lok Bonded Structures	Mar. 9 66	Secondary stock offering	Mar. 23 26	Expansion of acetate chemical plants in Celanese polyester film plant in South Carolina; polyacetate film and sheet plant at Newark, N.J.; polyester film marketing agreement with ICI	Mar. 2 18
Bonner & Moore Engineering Assoc. - unit operations simulation program for engineering design	Mar. 9 62	Cabot Titania - acquires National Distillers' titanium tetrachloride plant at Ashtabula, O.	Feb. 9 19	Forms Celanese International Co. as a new operating division	June 29 24
Bonneville Ltd. - Stockholder Thomas Dowling moves to block sale	Feb. 23 36	Calatrava S.A. - joint venture of Calvo Sotelo and Phillips Petroleum, will produce petrochemicals at Puerto Llano	Mar. 16 42	Nylon production planned	June 22 37
Stockholders clash over proposed sale - letter	Jan. 12 22	Calgon Corp. - new name of Hagan Chemicals & Controls	Apr. 9 87	Polyacetal patent dispute ends	Mar. 9 24
Stockholders vote to accept Standard Magnesium offer	Feb. 2 10	California Chemical Co. - Ortho Div. builds new research unit at Richmond, Calif.	Mar. 27 26	Polyacetal resin venture with Dainippon Celluloid - MITI approval expected soon	May 11 19
Booz, Allen & Hamilton - surveys foreign buildup by U.S. companies	Feb. 16 19	Phthalic anhydride plant at Perth Amboy, N.J. - startup delayed by flash fire	June 22 56	Zercher, John, tests polyethylene-lined drums	May 11 28
Borax (Holdings) of London - Indian boron products venture	June 29 24	Polymer Division opens plastics laboratory at Union, N.J.	Mar. 23 69	Celanese Fiber Co. - polyester fiber prices	Jan. 19 36
Borax Morarji - joint venture of Borax Holdings and Dharamsi Morarji Chemicals, will produce boron products	Jan. 12 57	Stirton, Robert, sees host of uses for alpha-olefins	Mar. 23 39	Celulosa y Derivados - polyethylene resins venture with ICI and Pemex	June 1 122
Borden Chemical Co. - adhesive for urethane	Feb. 9 49	California Ink Co. - water-type ink, Top-Set, gives film headstart in potentially lucrative newspaper color ink business	Mar. 23 61	Central Cooperatives - merging with Midland Cooperatives	June 1 31
Borden Chemicals (Canada) Ltd. - formaldehyde project at North Bay, Que.	June 22 62	California Research Corp. - Hall, K.L., pinpoints radiation's effects on organic coolants	Feb. 9 77	Cepsa - legal proceedings underway to stop refinery project at Bilbao	Feb. 16 26
Borg-Warner - chemical expansions in U.S. and abroad	June 15 18	Callery Chemical - boron fuel plant at Muskogee, Okla. - curtailment of operations	June 22 56	Champion Paper Co. - North Carolina's anti-pollution drive	May 25 178
Marbon Chemical Div. - styrene plant onstream at Baytown, Tex.	Jan. 26 85	Cal-Va Research and Development Corp. - carbon dioxide vaporizer	Mar. 20 69	Channel Black Inc. - carbon black process slated for byproduct in Texas	Feb. 23 99
Marbon Division opens ABS plant and styrene butadiene latex unit in Scotland	June 22 61	Calvo Sotelo - ethylene oxide and polyethylene venture with ICI	June 1 32	Chappel Oil - acquired by American Metal Climax	Jan. 26 18
Mechanical Seals Div. - magnetic separator Norge Div. - trading stamps used to push coin-op drycleaning units	Apr. 27 56	Petrochemical plan will be honored by government	Mar. 9 34	Chase Brass & Copper Co. - sewer case	June 1 44
Shatuck, Robert, group vice-president in charge of chemical operations	Feb. 2 64	Petrochemicals project at Puerollano runs into civic trouble	Mar. 16 42	Chatham Reading Chemical Corp. - acquired by Pittsburgh Plate Glass Feb. 16-19	Feb. 23 44
Boston-Wyoming Oil - acquired by American Metal Climax	May 4 23	Petrochemicals venture with Phillips Petroleum approved	Mar. 23 35	Chemerton Corp. - acquires 50% interest in Northern Chemical Industries	Jan. 12 25
Bostrom Corp. - new laboratory for urethane research and development	Jan. 26 18	Starts legal proceedings to stop Cepsa-Gulf refinery project at Bilbao	Apr. 27 75	Cardox Div. - carbon dioxide propellant marketing agreement with Carbide, May 4-6, Girdler Catalysts - catalyst, G-66, promises significant economies in hydrogen-ammonia plants	May 18 49
Bradley & Vrooman Co. - ink for glass	June 29 44	Canadian Chemical - carbon dioxide vaporizer	June 1 32	National Cylinder Gas Division expands air-separation plant in Chicago	Feb. 2 41
Bradley Pulverizer Co. - phosphoric acid plant to be built for Fisons; leaching and filtration systems licensed from Societe Metallurgique de Prayon	June 22 74	Cal-Va Research and Development Corp. - carbon dioxide vaporizer	Mar. 23 39	National Cylinder Gas Division will expand high-purity hydrogen gas plant at Dallas, Tex.	Jan. 12 25
Brauerei Technik, GmbH. - beer stabilization product licensed to Grace	June 22 37	Canadian Chemical - boron fuel plant at Muskogee, Okla. - curtailment of operations	Mar. 2 17	Tube Tums Div. - hinged closures	May 25 56
Breck, John H., Inc. - acquisition by Cyanamid completed	Feb. 9 50	Canadian Chemical - carbon dioxide vaporizer	Mar. 9 33	Vatotar Division - freeze concentration technique	Mar. 2 41
Hair colorant called Stroke & Comb Takes option to buy site in Memorial Industrial Park	May 25 56	Canadian Chemical - carbon dioxide vaporizer	Mar. 2 17	Chemical and Industrial Corp. - wins TVA nitric acid plant contract	June 1 97
Brew, Richard D., and Co. - Vacuum Furnace Div. - vacuum furnace	May 4 70	Canadian Chemical - carbon dioxide vaporizer	Mar. 9 33	Chemical and Plastics India Ltd. - polyvinyl chloride project - financial and technical assistance	Feb. 9 24
Bridgeport Brass Co. - Reactive Metal Products - titanium welding technique	Feb. 16 75	Canadian Chemical - carbon dioxide vaporizer	Mar. 9 33	Chemical & Power Products - affiliates with Seilo, Inc.	Mar. 2 33
British Aluminum Ltd. - Australian bauxite deposits lease withdrawn	June 1 32	Canadian General Electric - giant-size nuclear power plant design	June 8 33	Chemical Construction Corp. - potassium metaphosphate fertilizer process licensee	Jan. 26 27
Australian bauxite reserve leases	Mar. 2 33	Canadian Helium Ltd. - helium project	Apr. 27 75	Chemical Detergents Co. - automated truck-cleaning system	Feb. 2 45
British American Oil Co. - acquires majority interest in Shawinigan Chemicals, upsets Province of Quebec's offer	Jan. 19 25	Canadian Hydrocarbons Ltd. - debentures sold	Jan. 26 27	Chemicals and Phosphates Ltd. - development of phosphate properties in Israel's Omega area planned	Apr. 20 90
Canadian heavy water plant estimate	Jan. 19 54	Canadian Industries Ltd. - may market ICI's Melinex film	Feb. 16 58	Chemical Corp. - transparent plastic	Feb. 2 46
May acquire complete control of Shawinigan Chemicals	Jan. 12 18	Trinitrotoluene in commercial production at McMasterville, Que.	Apr. 13 80	Chemiebau Dr. A. Zieren GmbH. - phosphoric acid plant to be built in Greece for COMPADEC	May 4 55
British Burns Shell - wetting agents and synthetic detergents project in Pakistan with Futehally Chemicals - letter	Mar. 9 37	Canamex S.A. - Atlas Chemical agrees to acquire interest and to help concern go into emulsifiers and detergents	June 15 61	Rumanian soda ash plant contract	June 1 32
British Celanese - hydroxyethyl cellulose production planned	Mar. 30 10	Canusa Co. - extrusion mixing process for phenolic molding compounds	June 8 24	Will build superphosphate and sulfuric acid plants for Indian company	May 18 37
British Cellophane Ltd. - oriented polypropylene film plant planned	Feb. 16 26	Carbisulphol Co. - epoxy cleanser	May 18 68	Chemirad - ethylenimine marketing boost	Apr. 20 54
British Nylon Spinners Ltd. - nylon fiber production boost	Mar. 30 58	Carboumron Co. - acquisition of Pangborn Mar. 30-25, Employee layoff	June 8 66	Ethylenimine production	June 29 23
Nylon spinning plant to be built in the Republic of South Africa	Mar. 16 42	Fiberglass ceramic fiber plant expansion	June 15 44	Chemische Werke Hüls A.G. - electrolytic chlorine plant to be built by Hoechst and Uhde	June 22 50
Sales and earnings	Apr. 6 51	Firms subscribe to take over assets and business of Ty-Weld Machine Co.	June 22 26	Sales down in '62	Apr. 6 51
British Oxygen Co. Ltd. - acquires interest in Italy's Rovivo, S.p.A.	Mar. 30 58	Phenolic resins and chemical specialties plant at Wheatfield, N.Y.	Jan. 26 27	The Chemiton Corp. - Sulfur-to-syndet processes battle	Feb. 16 26
Profits for '62	Jan. 12 57	Semiconductor-grade silicon carbide process	Feb. 9 76	Chemoll Industries, Inc. - stock fraud case - decision	June 29 51
Sales and earnings	Feb. 16 26	Careers Inc. - engineering manpower study	June 8 37	Chemoll Products - new chemical intermediates producer in Houston, Tex.	Feb. 9 24
British Petroleum Co. - chemical stake grows	May 25 85	Chair, Philip, Manufacturing - closes Plymouth Meeting, Pa., plant	Mar. 2 26	Chemone Corp. - polypropylene film and fiber imports discontinued	Jan. 19 27
Molecular sieve processing developments	Jan. 26 37	Cargill, Inc. - acquisition of American Alkyd's Carpentersville, Ill., alkyd resin plant reported	Feb. 23 35	Chemplast Inc. - Teflon bonding kit	Apr. 13 25
British Titan Products - titanium dioxide plant may be built in France	Jan. 12 57	Grain trader goes chemical	Mar. 30 23	Chemserve (Austl.) Pty. Ltd. - acquires 45% interest in Parker Bonderite	June 29 39
British Visqueen - will operate polyethylene bags plant for ICI	Jan. 26 53	Salt mine onstream at Belle Isle, La.	Jan. 1967 61	Cherry-Burrell Corp. - Karl Kiefer Div. - drum filler	June 22 37
Bromine Compounds Ltd. - Israeli bromides plant onstream	Feb. 23 57	Urethane paint vehicle	May 25 44	Chesapeake Corp. - pulp and paper expansion at West Point, Va.	Mar. 2 41
Brown & Root - builds sulfur recovery unit at Houston, Tex. for Signal Oil	June 1 31	Carlisle Chemical Works - mercaptans in pilot plant quantities	Mar. 16 83	Apr. 27 26	

Chester Materials Co. — merger complaint dismissed	June 1	54	Hiana Corp. sold to Perflex Corp.	Feb. 23	45	Danubia Petrochemie A.G. — polypropylene fight — Montecatini wins round in Austria	Mar. 23	78
Chicago Bridge & Iron Co. — transition pipe joints for insulation space in cryogenic vessels	Jan. 26	92	Consolidated Mining and Smelting Co. of Canada — metal products research center to be built at Ontario Research Community	Feb. 2	53	Polypropylene plant operating at half-capacity	Apr. 20	54
Chicago Mill and Lumber Co. — Kerr-McGee merger called off	June 1	31	Phosphate projects: okays Douglas Mine project in Montana; proceeds with expansion of phosphate fertilizer project at Kimberly, B.C.	Apr. 13	69	Data Retrieval Systems — microfilmed equipment catalogs	Apr. 13	92
Chilton Co. — microfilmed equipment catalogs	Apr. 13	92	Consolidation Coal Co. — gasoline from coal process — OCR contract	Apr. 6	27	Davis Emergency Equipment Co. — David Instruments Div. — leak detector	Apr. 20	81
Chisso Polympropylene Textile Co. — joint venture of Avianus and Shin Nippon Chisso Chemical, will make polypropylene fiber	Apr. 20	54	Ohio pipeline to be retired, May 11-60	May 25	114	Dawham Bros. — acquisition by W.R. Grace	Feb. 23	36
Chrysler Corp. — Chemical Division — liquid drawing compound	June 15	52	Constock-Pritchard Liquefaction Corp. — New Jersey natural gas storage cavern builder	Mar. 2	55	Dayco Corp. — Cadillac Plastic & Chemical Co., a division, buys vinyl film business from Carbide	Jan. 26	25
Chemical Div. shifts into high on chemicals — letter	Mar. 9	39	Continental Chemical Co. — polyethylene wax emulsifier	Apr. 6	102	Dearborn Chemical Co. — oxygen meter	May 4	70
Turbine engines revamp outlook for petrochemicals, auto additives	Apr. 6	7	Continental Oil Co. — acquires 50% interest in Apollo-Carlon Pipe Co.	Jan. 12	17	Decatur Pump Co. — centrifugal pumps	Apr. 6	102
Ciba of India Ltd. — Indian research center established	May 18	19	Acquires Mid-South Chemical, sells Petroleum Chemicals assets to Cities Service, American Agricultural Chemical acquisition may be in trouble	June 15	19	Deere, John, Chemical Co. — fertilizer capacity boost at Pryor, Okla.	Apr. 6	90
Synthetic resins venture with Atul Products at Bhusar, Gujarat, India	Mar. 9	87	Anotrol Div. — corrosion protector	Mar. 23	36	Deering Milliken Inc. — acquires Textron's Aerotron Division	Apr. 27	26
Cincinnati Sub-Zero Products, Inc. — storage chamber for petroleum compounds	June 15	61	Anotrol Div. puts engineering team into field to sell anodic corrosion control system	Mar. 30	44	DeLaval Turbine, Inc. — lubrication pump	May 11	47
Cinder Chemical — dye carriers for polyester fibers	Apr. 6	102	Argentine petrochemical project — guarantee deal	Mar. 2	28	Delhi-Taylor Oil — Hess Oil completes acquisition of refining and marketing facilities	Apr. 13	28
Merges with Lederer Chemical	Apr. 13	91	Biodegradable detergent alkylate, Nalkyline Detergent alkylate projects launched	June 15	20	Sells certain assets to Hess Oil & Chemical and Gulf Resources	Feb. 2	23
Cintas Adhesives S.A. — adhesive tape plant nears completion	Jan. 19	27	Expands interest in plant foods, arranges to purchase American Agricultural Chemical	June 15	23	Delmar Chemicals Ltd. — acquired by John Labatt	Mar. 30	58
Cities Service Co. — Argentine petrochemicals project	Mar. 23	56	Increases holdings in Carlon Products	May 4	23	Delta Chemicals Ltd. — Witco negotiates for acquisition of firm	June 1	32
Tennessee Corp. merger Mar. 2-33, Mar. 30-31, Apr. 6-17, May 4-23, June 8-19, June 15-22	June 15	33	Oil shale bid	Jan. 5	22	Delta Industries, Inc. — new process converts rice hulls into fertilizer and feed	June 15	83
Cities Service Gas Co. — natural gas refund case settled	June 22	17	Controlled Environment, Inc. — air sampler	Apr. 13	69	Detech Engineering, Inc. — compressed-air filter	June 22	74
Cities Service Helex Corp. — helium conservation program — firm refuses to modify contract terms	Apr. 27	40	Cooper Tires Timles Laboratories, Inc. — American Research & Development invests in firm, proceeds from financing will be used to acquire Avenue Pharmaceuticals	Mar. 19	55	Denver Chemical Manufacturing — experiments prove that orally administered enzymes enter the bloodstream	Jan. 19	51
Cities Service Oil — Argentine petrochemical project — guarantee deal	Feb. 16	21	Pharmaceuticals research lab completed at Harrison, N.J.	Apr. 13	28	Derwood (Pakistan) — rayon and cellophane plant contract with five Japanese firms	Jan. 12	57
Cities Service Research and Development Corp. — plant for ringed eight- and 12-carbon-atom compounds will be built at Lake Charles, La.	Mar. 2	28	Corn Products Co. — Corn Products U.S., new division, will handle all domestic operations of company	Mar. 2	48	Desitin Chemical Co. — acquired by Pfizer Feb. 16-20	Apr. 20	26
Clairol — "false-bottom" plastic jar lawsuit	June 1	92	Corn Products Sales Co. — net-end additive called Cationic Starch 3091	Feb. 16	25	DeSoto Chemical Coatings Inc. — builds plant and warehouse at Pennsauken, N.J.	Apr. 13	28
Clark Bros. Co. — expansion engine	Mar. 9	47	Coming Glass Works — Chemcor break-resistant glass process	Feb. 23	94	Diversifies into detergents, acquires plant and lab near Milwaukee, Wis. from Essential Chemical	Apr. 6	27
Clark Oil — phenol-form-cumene plant will use Allied's process	June 1	107	Wage increase	May 18	64	Detrex Chemical Industries — chlorine-caustic plant to be built near Ashtabula, O.	Jan. 26-23	45
Cleveland Electric Illuminating Co. — Coal pipeline at Cadiz, O., may be retired	May 11	60	Corrosion Control Co. — rust remover	Jan. 12	84	Detroit Industrial Products Corp. — merger with Technical Tape of Delaware approved at annual meeting	June 1	29
Coal shipments to be made by rail	May 25	114	Cosan Chemical Corp. — new specialty chemicals producer	Jan. 5	36	Deuterium Corp. of Canada, Ltd. — Canadian heavy water plant estimate	Jan. 19	54
Climax Molybdenum Co. — molybdenum and tungsten research laboratory to be built on the University of Michigan's North Campus	June 29	44	Coden Oil & Chemical — new name for Coden Petroleum	May 11	19	Deutsche Farben — dye venture at Arnhem, the Netherlands	Jan. 12	57
Coast Exploration — International Helium will acquire firm	Apr. 27	75	Coden Petroleum — acquisition by American Petrofina	Mar. 9-17	19	Devco & Reynolds Co., Inc. — automotive finishes technical service agreement with Astral Celluco	Mar. 16	42
Coatings Research Group, Inc. — cooperative research group helps smaller paintmakers compete with the giants	Feb. 23	123	Polybutene called Polyvis SH	Feb. 2	17	Dexter Chemical Corp. — cross-linking agent gives cellulosic fabrics "wash-wear" properties	May 18	46
Coca-Cola Co. — will test market dietetic drinks	Feb. 16	57	Cosmic Plastic Inc. — diallyl phthalate resin-molding compounds	Mar. 30	30	Detergent and dye leveling	Apr. 13	91
Coimbatore Pioneer Fertilizers Ltd. — superphosphate and sulfuric acid plants to be built by German firm	Apr. 20	54	Courtaulds, Ltd. — pretax profits increase reported	Apr. 6	102	Dexter, C. H., & Sons — Standard Insulation Co., a subsidiary, has been acquired by Armour Alliance Industries	June 1	31
Coke Oven Chemicals, Inc. — Litoi plant will upgrade coke-oven BTX	June 29	48	Quox "synthetic leather" — U.S. marketing plans	June 22	37	Dharmasi Morari Chemicals — horon products venture with Borax (Holdings)	Jan. 12	57
Colgate-Palmolive Co. — actively interested in food business; sales and earnings	Mar. 23	24	Red China official visits plant	Feb. 2	46	Diamond Alkali — acetylene process hassle with Montecatini	Apr. 27	60
Aerosol shaving cream patent suit settled	June 1	32	Crane Co. — Engineered Products Group — instrument system measures pump performance	Apr. 6	51	Antibusters question Bessemer merger	June 1	30
Rapid Shave television commercials still under fire	Mar. 23	114	Creative Plastic Containers Corp. — court order temporarily enjoins state official from interfering with marketing of cosmetic containers	June 22	46	Argentine petrochemicals project	June 15	33
Collier Carbon and Chemical Co. — Rubel, A.C., plots course for improved earnings	June 1	28	Crest-Foam Corp. — urethane foam adhesive	May 11	20	Blow-molding techniques to be adapted to polyvinyl chloride applications	Apr. 20	84
Union Oil acquires complete control	May 4	24	Cromox Peruana S.A. — printing ink plant in operation	Jan. 26	92	Flame retardant, Diablo 700X	June 29	70
Colorado School of Mines Research Foundation — establishes glass technology laboratory with FMC	Jan. 5	41	Crouse-Hinds Co. — electrical equipment for hydrogen service	Jan. 5	35	Powdered polyvinyl chloride resin marketing push	June 20	96
Columbia Associates — American Viscose-FMC merger — opposition affidavit by Presson Share	June 29	18	Crown Aluminum Industries Corp. — continuous process for casting aluminum	Apr. 20	75	Sodium carbonate in new form — hollow, porous-shell particles called Flozan	June 8	56
Columbia Cellulose Co. — Prince Rupert pulp mill expansion	June 29	26	Crown Zellerbach — levulinic acid plant startup at Port Townsend, Wash.	Feb. 2	57	Diamond Chemical Co. — co-in-op surfactant	Jan. 19	65
COMPADEC — phosphoric acid project in Greece — contract awarded to Chemiebau Commerce Drug Co. — acquired by Maradel Products	June 22	26	Modemizes pulp and paper mill at Bogalusa, La.	June 1	24	Diamond National Corp. — merger with Thatcher Glass Mfg. proposed	Apr. 6	27
Estes case — Texas readies ammonia anti-trust suit	Mar. 4	23	No. 12 paper machine to be installed at Camas, Wash. mill	Jan. 5	25	Di Cyan & Brown moves into new quarters	May 4	24
Exxon damage suit	June 15	40	Paper mill at St. Helens, Ore., may be sold to Boise Cascade	June 15	26	Distiller Corp. — division scientists will operate Lilly Research Laboratories	Apr. 13	59
Livestock feed plant at Peoria, Ill. — shutdown	June 27	15-26	Cryocomics Corp. — new firm specializes in cryogenic research and equipment development	Jan. 5	44	Dixie Corp. — acquires Commonwealth Sanitation Co., Temtilol Co., and Guaranteed Sanitation Co.	June 8	26
Wiles, Ivan L., new board member	Mar. 23	24	Culligan — adds line of soaps, detergents, dishwasher compounds and hair shampoo	Feb. 9	77	Diversey Western Co. formed	Feb. 16	25
Commonwealth Oil Refining — capacity boost at San Juan refinery	Mar. 23	26	Curley Co. — acquired by B.T. Babbitt	Jan. 5	25	Establishes firm to make cleaning and sanitizing agents for Jamaica's food and dairy industries	Mar. 23	66
Dividend payments increase	Jan. 26	27	Cyanamid de Mexico — opens Mexico's first antibiotics plant	Feb. 9	37	Dixon Chemical Industries — recapitalization plan moves ahead	Feb. 9	17
Commonwealth Sanitation Co. — acquired by Diversey Corp.	Feb. 16	25	Cyanamid, Philippines, Inc. — American Cyanamid owns 65% of resins producer	Apr. 20	54	Refinancing plan with Olin gives Dixon new lease on life; name will be changed to Paulsboro Chemical Industries	Jan. 12-23	45
Compania de Carbonos Coloidales — AID to finance carbon black venture at Salvador, Bahia	Feb. 2	46	Cysar & Mayr — polypropylene flight — Montecatini wins round in Austria	Mar. 23	78	Dixon Corp. — thermoplastic resins called Melin Resins	Apr. 6	102
Compania de Acero del Pacifico S.A. — high-purity oxygen plant to be built by Air Products	Feb. 23	57	Dainippon Celophane Co. — five Japanese firms export rayon plant to Pakistan	Jan. 12	57	Documentation Inc. — microfilm filing system	June 22	73
Compania Pernambucana de Borracho — synthetic rubber project at Recife	June 15	61	Dainippon Celuloid — polyacetyl resin venture with Celanese — MITI approval expected soon	May 11	28	Takes on job of abstracting unpublished aerospace literature, processing cancer-screening data	Jan. 26	83
Conair Corp. — thermocouple	Apr. 27	56	Dai-Nippon Spinning — vinyl copolymer export contract with Red China's National Technology Corp.	June 8	26	Dodge Manufacturing Corp. — pump coupling	Apr. 20	81
Concordeven AB — acquired by Sikkens Groep NV	Mar. 2	55	Dalglass, John — bids for Russian synthetic rubber plant contract	Apr. 27	82	Doggett-Fisons — new name of Doggett-Pfeil Co.	Feb. 16	26
Consolidated Aerosol Corp. — acquisition by Nadisco proposed	Apr. 6	51	Dan-D Products Corp. — takes over national sales of Vami-Lite's epoxy coatings	Mar. 23	66	Doggett-Pfeil Co. — acquired by Fisons, renamed Doggett-Fisons	Feb. 16	26
Consolidated Foundries and Mfg. Corp. — Ber-	Mar. 30	25	Dana Laboratories — DuPont helps launch firm in the manufacture and marketing of electronic equipment	Apr. 13	27	Dominion Rubber — reclaimed rubber project at Ville d'Anjou	May 18	37

Dow Chemical Co. — acquires three of four manufacturing plants it formerly owned jointly with Hoover Ball & Bearing	May 25	53	turners Committee Corfam polyester fiber shoes sold at I. Miller	Apr. 6	28	Electric Storage Battery Co. — Oxide Industrial Marketing Div. — emergency lighting unit	Apr. 27	56
Annual meeting — May 18-22.	Apr. 6	30	Develops process for disposing of spent pickle liquor from steel mills	June 15	79	Electrostatic Printing Corp. of America — pressureless printing process	Mar. 23	78
Branch, C. B., forecasts growing market for plastics in refrigerators and freezers	Jan. 12	71	Dimethyl terephthalate plant to be built at Old Hickory, Tenn.	May 11	59	Electro-Trace Corp. — electric heating (tracing) system debuts	June 1	115
Bromine prices	June 1	122	Dyes and Chemicals Division — fiber-reactive dyes called Cavalite	Mar. 30	18	El Paso Natural Gas Products Co. — may drop out of Algerian butadiene project	Jan. 5	24
Chemicals-wood research agreement with Weyerhaeuser	Feb. 9	62	Dyestuffs: firm will make and sell Hoechst reactive dye line	June 15	52	Petrochemical buildup in Odessa, Tex.	June 8	24
Diphenyl oxide derivatives	Jan. 5	35	Explosive cladding moves closer to commercialization	Feb. 16	47	Emerson & Cuming Inc. — dielectric powders	May 18	68
Dobekmum Division changed to Packaging Division	June 22	26	Ferredoxin isolated from bacteria that grow in soil	May 25	114	Dip coating for electronic components	Feb. 9	50
Dobekmum Division closes plastics film plant at Berkeley, Calif.	May 18	71	German titanium oxide pigments venture with Sachleben	Apr. 27	59	Energy Industries — acquires Process Chemicals Co.	May 25	56
Dobekmum Div. — expansion of polyethylene film plant at Fresno, Calif.	Apr. 6	27	Greenewalt and Copeland win solid support at annual meeting	Mar. 2	33	Dividends hike	May 18	23
Dustless flux	Jan. 26	92	Japan approves polycatel resins venture with Showa Denko	Apr. 20	23	Emkay Chemical Co. — aliphatic ester sulfate Employers Mutuals of Wausau — studies effectiveness of safety leaflets, posters and films	Jan. 19	65
Epoxy rubber developed by Joseph Baget and Malcolm Pruitt	May 18	39	Lenger, Samuel, wins on government R&D Moves deeper in instruments, invests in West Coast electronics firm	May 11	28	ENI — Egyptian petrochemical project	Apr. 6	85
Ethylenimine in semiconducting production at Freeport, Tex.	June 22	50	1962 financial results — effect of new tax derivatives	May 30	5	Enjay Chemical Co. — alpha olefins deal with Monsanto rumored	May 25	95
Ethylenimine to be produced commercially	Apr. 13	70	Nylon molding powder expansion leads to resin price cuts	June 1	108	Polypropylene line — four new grades	June 22	18
Explosion and fire at Plaquemine, La., complex	Mar. 9	87	Nylon strapping system for shipment of pallet loads	Apr. 13	27	Enthone, Inc. — dry acid salt treats metals prior to plating	Mar. 16	83
Field research station at Davis, Calif. Iodine operations transferred from Seal Beach, Calif., to Midland, Mich.	June 1	128	Opposes dual rate system proposed by steamship companies	Feb. 2	21	Escambia Chemical Corp. — considers borrowing money to finance budget and to retire a portion of debt to Bond and Share	June 8	25
McIlhenny, W. F., discusses economics of mining minerals from the sea	May 18-23	71	Paint applications laboratory being built at Marshall Laboratory in Philadelphia	Mar. 30	60	Electric Bond and Share deal approved by SEC	Apr. 13	19
Moves part of its agricultural research activities from Florin, Calif., to Davis, Calif.	June 2	50	Polyacetal patent dispute ends	Jan. 5	35	May become wholly owned subsidiary of Electric Bond and Share	Feb. 23	44
Nuclear fuels laboratory under construction at Midland, Mich.	May 11	60	Polypropylene patent cross-licensing breakthrough	June 8	29	Methacrylic acid and methyl methacrylate plurimac Penascoila to go onstream this fall	June 8	25
Opposes dual rate system proposed by steamship companies	Apr. 27	52	Programmed instruction used to develop steamer skills	Jan. 5	44	Essential Chemical Co. — sells Milwaukee, Wis., plant to DeSoto Chemical Coatings	Apr. 6	27
Organic carbamate insecticide — new formations	Mar. 9	56	Refrigerant gas container deposits	May 11	19	Essex Chemical Corp. — acquires Lurado Manufacturing Co.	Mar. 2	26
Oil cleaner	Jan. 19	32	Refrigerant gas insulation	June 15	21	Dixon Chemical recapitalization plan moves ahead	Feb. 9	17
Paint coalescing agent	May 4	55	Surface-active agent called Zonyl	Jan. 26	27	Dixon Chemical's refinancing plan completed	Apr. 6	17
Polypropylene-lined pipe, valves, fittings, pump introduced	Mar. 23	101	Tennessee land deal approved; applies for SEC clearance on proposed purchase of site near Newark, Del.	Jan. 12	71	Works out complex plan to keep Dixon Chemical Industries afloat	Jan. 12	23
Polypropylene oxide rubber research	Apr. 20	95	Vinyl coating resin, Elvax 260	Jan. 12	84	Esso Chemical Co., Inc. — Jersey Standard affiliate will handle international movements of chemicals	May 4	18
Polystyrene discount plan	June 1	121	Wage agreement at Louisville, Ky.	Mar. 2	42	New Jersey Standard affiliate will coordinate and expand international chemical business	May 11	22
Polystyrene price cuts	Jan. 9	71	Du Pont of Canada — Canadian heavy water plant estimate	Mar. 16	52	Esso-Nederland N.V. — Dutch gas pipelines venture with Shell	June 8	26
Polystyrene resale arrangements with Catalin terminated	Mar. 16	72	Duranor — merges with Plastics Atanor; dedicates phenol project at Rio Tercero	Jan. 19	54	Esso REP — establishes laboratory near Paris in collaboration with Jersey Production Research	Jan. 5	44
Polystyrene resin prices	Feb. 23	45	Duronix Chemical Corp. — Prosperity House tackles door-to-door selling	June 15	61	Esso Research and Engineering Co. — biodegradable detergent: sodium alkane sulfonate	June 15	80
Stock dividend	June 29	34	Duval Corp. — debenture sale and expansion program	Feb. 16	45	Hydrocarbon fermentation research	Feb. 2	49
Wage agreement	Apr. 27	40	Phosphate rock ore investigation in Sublette Range area of southwest Wyoming	June 29	25	Jones, Charles F., new president, will stress over-all corporate objectives	Mar. 9	78
Water rights hassle in Texas	Apr. 20	54	du Verre Inc. — absorbed into Corrosion Control Division of parent company, International Pipe and Ceramics	Feb. 23	45	Molecular sieve hydrocarbon catalyst process	Feb. 23	100
Dow Chemical International — Dutch subsidiary will build saran plastic film plant Temseuzen complex will produce glycols, polyglycols, alkylene amines and polystyrene	May 25	95	Dye Oxygen Co. — low-temperature air-separation plant to be built at Phoenix, Ariz.	Feb. 9	26	Solid-rocket propellants contract renewed	Jan. 19	51
Dow Chemical of Canada — Smithers, L.D., discusses anti-Americanism issue	Feb. 16	23	Dynacolor Corp. — merger talks with 3M	Apr. 13	26	Esso Standard Eastern, Inc. — forms single chemicals coordination department	May 25	34
2,4-D herbicide to be produced at Edmonton, Alta.	Jan. 26	27	3M may acquire company; sales and earnings June 29	18	Esso Standard (Cuba) Inc. — Cuban refinery cut to about 40% of capacity	Feb. 9	27	
Dow Coming Corp. — float zone-refining process yields single-crystal silicon slices of larger diameter	Feb. 9	76	Ethy Chemical Co. — tetraethyl lead project	Feb. 18	37			
Silicone building products to be marketed by distributors; sealant price cut	May 11	70	Ethy Corp. — Canadian antiknock additive tariff file request — opposition from two oil refiners	Jan. 5	60			
Silicone dielectric coolant	Jan. 12	43	Chlorine-caustic plant onstream at Baton Rouge, La.	Feb. 16	57			
Silicone expansion program: capacity boost in Midland, Mich., medical-grade silicones project at Hemlock, Mich., structural sealants project at Elizabethtown, Ky.	Apr. 27	26	Focus on cash flow for diversification into plastics	May 18	23			
Silicone heat-sink compound	Feb. 23	94	District 30 edges out OCAW at Pasadena, Tex.	June 1	44			
Silicone resins improve semiconductor performance	June 1	108	3-nitro-1,5-pentane diisocyanate to be produced at Orangeburg, S.C.	June 16	48			
Silicone rubber motor encapsulant	May 18	67	Stockholders authorize new stock to back diversification	June 1	28			
Silicone rubber, Silastic 950U	May 11	48	Two-for-one stock split proposed	May 4	24			
Dow Smith Inc. — Little Rock, Ark., voters approve proposed plant and headquarters. Plans to lease plant and headquarters in Little Rock, Ark., if city's voters approve bond issue to finance construction of plant	Mar. 16	26	Ethy-Dow — wage agreement	June 29	34			
Dow Uniquine — naphtha-cracking unit — engineering contractor bids	Feb. 2	26	Ex-Cel-O Corp. — polyethylene-coated Pure-Pak carton licenses	Jan. 5	64			
Dowl Dane-Bembauch — Weiss, Edward, says independent druggist is on the way out	June 15	18	Extruded Plastics — merges into Richardson-Merrell, becomes Tulox Plastics Division	Jan. 5	25			
DPR, Inc. — depolymerized rubber for gasket applications	Mar. 30	32	FMC Corp.					
Draw Cos. — dividend payments increase	Mar. 23	36	American Viscose merger					
Dresser Industries, Inc. — Clark Bros. Co. — prime mover will use gas-lubricated bearings	Feb. 2	18	Merger delayed	Jan. 26	18			
Drew Chemical Corp. — acquires majority interest in Vegetable Oil Products Co.	Apr. 27	64	Merger moves ahead	Feb. 2	23			
Biocides for slime, algae, and bacteria	May 4	24	letter	Mar. 2	7			
Drop Dead Co., Inc. — Promise Future polish trademark suit	Apr. 6	101	Still under study at Justice Dept.	Feb. 16	30			
Drug Houses of Australia — forms joint company with Baxter Laboratories to make intravenous solutions and other products.	Jan. 12	85	Stockholders haven't voted on acquisition	Mar. 30	17			
DuBois Chemicals' — new plant at City of Industry, Calif., will consolidate operations of plant at Los Angeles and Vestal Division plant at Modesto, Calif.	Jan. 26	53	Stockholders will vote	Apr. 6	17			
Duncan Supply Co., Ltd. — drilling mud distribution contract with IMC	June 15	26	What's in store for Viscose if merger is approved	Apr. 20	17			
Dunlap Rubber — polypropylene oxide rubber research	Feb. 2	18	Stockholders favor merger	May 4	18			
Dunlop Rubber Co. — elastomeric polymers patent swap with Montecatini	Jan. 26	69	Merger approved, closing date postponed.	May 18	22			
North American Research Centre will occupy facilities at Ohio Research Community	Feb. 9	68	F.M. Hilt says merger is "preceding toward conclusion"	June 8	19			
Dunlop Tire & Rubber Corp. — wage agreement at Buffalo, N.Y.	Feb. 2	53	American Viscose, FMC accept antitrust challenge	June 15	21			
DuPont E.I. duNemours & Co. — AEC's Savannah River project contract — extension sought	June 29	34	Opposition affidavits by Hans Stauffer and Pressman Share	June 29	18			
Buff-and-spray system for polishing floors Chase, Thomas, heads Houston's Manufact-	June 15	26	Chlorinated cyanuric acid plant onstream at South Charleston, W. Va.	June 22	62			
	June 1	108	Coal pyrolysis research makes progress	Mar. 2	52			
			Coke from noncooking coal project report	Mar. 9	61			
			Establishes glass technology laboratory with CSMRF, nonprofit lab.	Jan. 5	41			

Fairfield Chemicals, a division, moves its headquarters	Apr. 20	26	Ford Motor Co. - Electric Autolite Div. - vinyl film products antifrost suit	Apr. 13	27	Research Laboratory develops new lubricant additive	Jan. 26	70
Inorganic Chemicals Div. - long-chain glassy phosphate	Feb. 23	93	Laser discharge stored in spinning mirror	May 4	56	Silicone antifoam agents line enlarged	Mar. 23	66
Inorganic Chemicals Div. - metachloroperbenzoic acid	Feb. 23	93	Forest Fiber Products Co. - acquires Northwest Petrochemical Corp.	Feb. 2	26	Silicone release coating aims at PE-coated milk and juice container market	Jan. 5	64
Inorganic Chemicals Div. - organic intermediate: amino HMI	Apr. 6	101	Forest Products Laboratories of Canada - dimethyl sulfoxide (DMSO) pulping process	Jan. 5	52	Solid-state totalizer (SST-1) called Pulsar script	Feb. 16	47
Inorganic Chemicals Div. - persuades printed circuit makers to use ammonium persulfate on boards made with tin-nickel "wire"	Jan. 26	25	Fornica Corp. - plastic-laminate-clad doors and kitchen cabinets	May 18	72	Space Technology Center - high-altitude flight research	Mar. 23	39
John Bean Div. - hydrostatic tester called Polymar	Apr. 13	91	Fosfatbolaget - acquires site in Landskrona for plastics plant	Apr. 6	51	Terephthalic acid process development	Feb. 23	99
Niagara Chemical Division - fungicide	June 1	108	Foster Grant Co. - petrochemical plant being built at Baton Rouge, La.	Mar. 2	26	General Mills - nine new dimer diamines	Mar. 23	77
Niagara Chemical Div. - miticide licensed from Hoechst	Mar. 23	35	Foster Grant Polyolefins - polyethylene plant taken over by Mobil Chemical	Mar. 30	25	Nonionic dialdehyde vegetable gums	May 4	55
Progress report on upgrading coal to liquids and gases	Apr. 13	69	Foster Wheeler Corp. - builds Dimmitt, Tex., ammonia plant for Western Ammonia	June 1	31	Vegetable gums for paper manufacturing trade	May 11	48
Sales and earnings	Feb. 23	35	Fotochrome Inc. - pay-as-you-copy plan initiated	Feb. 2	64	General Plastics - flexible, microporous Teflon in developmental stage	June 29	48
Soda ash-from-trona patent battle looms	May 11-20	May 18	Frank, J. P. Chemical & Plastic Corp. - Atlantic Refinery acquires complete control	Apr. 20	26	General Plastics - plywood and coated abrasives antifrost suit	Mar. 23	24
Sodium hexametaphosphate project at Lawrence, Kan.	June 22	61	Franklin Arsenal - new tubes resist potent liquid rocket fuels	Apr. 6	70	General Precision - Aerospace Research Center - Daniel Grafstein named head	Mar. 9	87
Factor, Max. & Co. - merger negotiations with Lanvin-Parkums	June 22	26	Freepore Sulphur - spends some "loose" cash, acquires Southern Clays, Inc.	June 15	17	General Telephone & Electronics - liquid laser based on europium in an organic chelate	Mar. 2	51
Fairchild Camera and Instrument Corp. - Semiconductor Div. - instrument tester	Feb. 2	66	Frontier Chemical - ammonia plant at Wichita, Kan., onstream	Mar. 2	62	General Tire & Rubber Co. - granted status of "integrated factories" by Central American Common Market	Mar. 9	31
Falmouth Chemical Co. - hydrazine plant at Newark, N.J. - expansion plans	Feb. 16	20	Autothermal reforming used in ammonia plant	Mar. 30	49	Nautolex vinyl fabric trademark infringement	Apr. 13	42
Falls Industries Inc. - acquisition by Basic Inc., proposed	Mar. 16	26	Fuller, W. P. - aerosol paints move into Western states	Jan. 26	85	Polyether urethane foam process patent	Mar. 16	23
Fansiede Hoboken - joint venture of Fansiede and Societe Generale Metallurgique, will produce refractory metals	Jan. 5	25	Futuholly Chemicals Ltd. - wetting agents and synthetic detergents project with British Burma Shell	Mar. 9	37	Polyether-urethane foam patent - licensing policy and royalty fees set	June 29	47
Fansiede Metallurgical Corp. - Belgian refractory metals venture with Societe Generale Metallurgique de Hoboken	Jan. 5	25	Mar. 30	10	Polypropylene oxide rubber samples out on test	Jan. 26	69	
Far-East International Corp. - codefendant in drug sales kickback case	Mar. 16	36	United Kingdom issues patent for oil extended rubber process	Feb. 2	46			
Farbenfabriken Bayer AG - Bayer Aspirin trademark suit decision	Mar. 2	28	Geophysics Corp. of America - looks for broader uses of ultraviolet sources	Mar. 9	82			
Build Germany's tallest building	Apr. 27	67	Georgia-Pacific Corp. - acquisition of outstanding stock of St. Croix Paper Co. and Vanity Fair Paper Mills proposed	Jan. 12	25			
Electrolytic chlorine plant to be built by Hoechst and Uhde	Apr. 6	51	Crosscut Div. - residents of Crosscut, Ark., will vote on bond issue to finance new facilities	Mar. 2	26			
Financial report shows 10.8% sales increase	Apr. 27	84	Expansion of Toledo, Ore., paper mill planned	Mar. 23	26			
Netherlands dye venture announced	Jan. 12	57	Crosscut, Ark. residents approve bond issue	Mar. 23	26			
Polypropylene dyestuffs	May 4	69	Formaldehyde plant onstream at Coos Bay, Ore.	Feb. 9	77			
Farwerke Hoechst AG - acquires Lloyd Brothers	Jan. 5	25	Merging with Puget Sound Pulp & Timber	Apr. 27	26			
Electrolytic chlorine projects with Uhde	Jan. 5	67	Plywood antifrost suit	Mar. 23	24			
Electrolytic process makes chlorine from hydrogen chloride	Mar. 30	49	Gillette - fluorocarbon-coated razor blades patent	Apr. 27	59			
Financial report shows 8.6% sales increase	Apr. 27	84	Girdler Corp. - ammonia plant to be built for Odessa Natural Gasoline at Odessa, Tex.	June 8	26			
Forms joint company with Hamer-Holding to acquire Thermalop N.V.	Mar. 23	56	General American Oil Co. - owns 25% of Premier Petrochemical, new urea producer	June 15	52			
High-density polyethylene plant to be built in Australia	Apr. 27	75	General American Transportation Co. - explosion damages sulf	Jan. 19-20	27			
Joins in Spanish petrochemical project	Apr. 27	18	General Aniline & Film Corp. - acetylene-treated cotton research contract	June 15	40			
Miticide licensed to FMC	Mar. 23	35	General Aniline & Film Corp. - polyester fiber dye	Mar. 2	42			
Reactive dyes licensed to Du Pont	June 15	52	Makes first presentation before a group of financial analysts	Jan. 26	25			
Reactive dyestuff line to be made and sold by Du Pont	Feb. 16	47	- letter	Feb. 16	6			
Famow Inc. - bodied-oil, maleinized soy vehicle for paints	Apr. 6	101	Sale of government stock may be delayed	Jan. 19	30			
Farris Flexible Valve Corp. - flexible valve	May 25	43	Sale of government stock - Sen. Keating and Nicholas Katzenbach confer	Feb. 23	35			
Farwerke Huels - polyester patent fracas	Apr. 6	23	Sale of government stock - out-of-court settlement with Interhandel proposed	Mar. 2	27			
Federal Gas-Hus Partners - acquires Vitro Minerals' Wyoming uranium properties, takes over business of Susquehanna-Western mill at Riverton	June 1	30	Sale of government stock - Justice Dept. and Interhandel negotiate settlement	Mar. 9	25			
Federal Mogul Corp. - packaged unit recovers process chemicals from cyanide-plating rinse water	Mar. 30	43	Sale of government stock - Interhandel shareholders approve deal	Apr. 6	18			
Feller Chemical Corp. - insect control unit adapted for swimming-pool and patio use	Feb. 9	75	Sales and earnings; criticism of U.S. - Interhandel settlement	Mar. 16	19			
Femco Acid Corp. - citric salt; new rufing, same result	Apr. 13	27	Werner Jesse, previewes company's fast-growth plan	Mar. 23	20			
Ferro Corp. Color Div. - glass stains Goldsberry Engineering Division set up to build equipment for the manufacture of reinforced-plastic vessels	May 18	68	General Dynamics Corp. - Liquid Carbonic Div. - cryogenic pump	Mar. 2	41			
Vinyl stabilizers	Feb. 23	45	TFX controversy	May 18	25			
Fiber Industries, Inc. - Fortrel polyester fiber producer	Feb. 2	66	General Electric Co. - Advanced Technology Laboratory established at Schenectady, N.Y.	Feb. 23	116			
Fibrous Glass Products, Inc. - big payoff from small glass plant	June 29	24	Advanced Technology Laboratory - heat-developable plastic film is sensitive to light	June 1	125			
Filtrol Corp. - stockholder's dividend suit turned down	Jan. 5	68	Aluminum lubricants to be marketed by Houghton under CINDOL trademark	June 29	48			
Firestone Synthetic Fibers - fine-denier nylon yarn expansion at Hopewell, Va.	May 25	174	Builds unit to house space reactor development projects at its Vallecas Atomic Laboratory	Jan. 5	44			
Firestone Tire and Rubber Co. - deburet sale; synthetic rubber capacity swap with Japan's Hokushin	Mar. 23	102	Computer control system offered at low cost	June 29	47			
Fischer & Porter Co. - instrument technology swap with Japan's Hokushin	June 29	25	Electrical catalysis to make gasoline progress report	Apr. 13	69			
Fish International - Argentine petrochemical project - guarantee deal	Mar. 2	52	Fuel cell operates at moderate temperatures on wide range of hydrocarbons	May 11	56			
Fisher Scientific Co. - culture media Laboratory detergent	Mar. 2	28	Fuel cell operating on natural gas has been successfully tested	Jan. 5	45			
Fisons Ltd. - acquires U.S. gardening equipment firm, Doggett-Pfeil; opens fertilizer plant in Belgium	June 1	107	Hanford Laboratories - CSREX process extracts hard-to-remove fission products from nuclear fuel process wastes	May 18	63			
Phosphoric acid plant at Immingham to be built by Bradley Pulverizer	Apr. 6	101	Irradiation Services and Products Section set up in Atomic Power Equipment Dept.	Feb. 23	110			
Sulfuric acid plant to be built at Immingham Flaitow, R. E. & Co. - distributor for Ingram-Bloch	June 22	37	Lamp Glass Dept. - translucent aluminum canical	Mar. 2	51			
Flexknock Co. - Teflon packing for emergency service	Jan. 5	67	Light Military Electronics Dept. completes application lab for thin-film micro-electronic circuitry	Mar. 9	87			
Floydine Controls, Inc. - cryogenic valves	Apr. 27	56	Mass flowmeter used for custody transfer	Apr. 13	94			
Flo-Tronics, Inc. - Air Conveyor Div. - tank level-meter	Feb. 23-24	May 4	New process uses electrical field to break oil-in-water colloidal suspensions	Apr. 20	72			
Fluor Corp. - acquires oil and gas properties of Mexican Associates	Apr. 20	84	Promethium-147	May 18	67			
Fluorocarbon Assoc. - Teflon bonding kits	Jan. 19	27	Refractory metals plant at Euclid, O. - dedication	May 11	59			
Food Fair Stores - trading stamps given with drug purchases	Jan. 19	65	Research findings provide new insight into properties of plastics	June 1	104			
Foot Mineral - lithium sales up	Feb. 2	64	Research Laboratory claims new high-field record for superconducting magnet	June 22	56			
Ford Foundation - resources study - closeup - year 2000	May 4	64						
	Apr. 13	86						

Davison Chemical Div. - lawn-care service	bucks do-it-yourself trend, ties in with	fuel oil dealers	Feb. 9 64	Household Finance Corp. - will issue stock	to acquire Badge Paint & Hardware	Apr. 20 26
Davison Chemical Div. - silica gel for use	in porcelain enamel "alips"	Calif.	Feb. 23 114	Houston Chemical - Pittsburgh Plate Glass	assumes responsibility for debt	Feb. 16 19
Davison Chemical Div. - silica gel pellets	for use as a packaging desiccant	Jan. 5-45	Jan. 12 61	Houze Glass Corp. - Aerojet acquires glass-fiber R&D facilities and patents	Apr. 6 27	
Dewey and Almy Chemical Div. - Automot-	ive Products Group formed	Apr. 13 26	Howards of Ilford - cyclohexanol and cyclo-	hexane project	Mar. 9 37	
Dewey and Almy - Saran latex prices, ex-	expansion at Owensboro, Ky.	Jan. 19 52	Howe Sound Co. - West Canadian copper and	timber properties acquired by Anaconda	Co. (Canada)	
Dewey and Almy Chemical Div. - synthetic	leather for shoe uppers	Mar. 9 31	Hudson Gas & Oil Corp. - principal assets	acquired by San Jacinto Petroleum and	Jan. 26 27	
Hatco Chemical Div. - phthalic anhydride	plant due upstream at Fords, N.J.	Apr. 20 81	Dorchester Gas Producing	Humble Oil & Refining Co. - employee layoff	Jan. 12 23	
Hatco Division will not shut down Badger-	process phthalic anhydride plant at Fords,	June 1 121	coming at Baton Rouge, La.	Gas processing plant in Dover-Hennessey	Mar. 16 52	
N.J. despite opening of Chemiebau-pro-	cess unit at same location	Apr. 6 101	field of Oklahoma - capacity boost	Interior Dept. weighs oil shale bid	Apr. 27 26	
Microspheroidal silica gel	Nuclear fuel reprocessing plant - ground-	May 18 17	Molecular sieve processing developments	National gas processing plant being built at	Apr. 13 69	
breaking ceremony	Pan American-Grace Airways' interest to be	Jan. 26 85	Garden City, La.	Gardner City, La.	Jan. 26 37	
Phosphoric acid and fertilizer project near	Bayonne, France	June 22 24	Reistle, C.E., discusses engineer shortage	and demand	Mar. 30 25	
Polymer Division may get into polypropylene	production	Apr. 27 17	South-Dowglass acquisition rumors	Humphreys & Glasgow, Ltd. - bids for	June 8 37	
Prostec's professional eye care to stock-	holders	May 25 34	Russian ethylene plant contract	Ethylene feed plants to be built for the	June 8 20	
Sale of steamship subsidiary rumored	Sales of chemical group are more than 50%	May 18 17	Soviet Union	Hydrocarbon Research Inc. - trade secrets	May 11 28	
Sales of firm's total sales	Wah Chang acquisition - financial hitch	Apr. 27 38	suit with Universal Oil Products	Hydrodipose, Inc. - computing totalizer	Mar. 9 22	
could scuttle deal	Washington Research Center at Clarksville,	Apr. 6 18	Hyosol Corp. - room-temperature-vulcanizing	silicone rubbers	Feb. 2 66	
Md. - expansion	Granite Hosiery Mills - polypropylene hose	Mar. 23 17	June 27 40	Apr. 27 55		
Graphite Specialties Corp. - acquisition by	Basic Inc., proposed	Feb. 9 68	June 15 97	ICI (New York) - new name of Imperial	June 29 25	
Great Lakes Biochemical Co. - cleaning agent	for sand and diatomite swimming-pool	June 8 24	Chemical Industries (New York)	ICI (Organics) - new name of Arnold, Hoffman	June 29 25	
filters	Great Lakes Carbon Corp. - cost of high-purity	Mar. 16 26	Identus Kosan - petrochemical plans for	Tokuyama	May 18 37	
graphite anodes for mercury cells drops	graphite acid unit onstream at Filer City, Mich.	Feb. 9 75	Imperial Chemical Industries - Allen, P.C.,	opens "Interplas" exhibition	June 22 62	
Wage agreement	Trades on bromine know-how to advance its	Jan. 12 67	Ammonium sulfate monopoly comes to end	Arab League slaps ban on firm	June 29 28	
Great Lakes Chemical Corp. - hydrobromic	position in U.S. business	May 18 81	Closes down Alkali Division plant at Burn	June 23 18	May 11 28	
acid unit	Greer Hydraulics, Inc. - Greer Olaer Products	June 15 98	Naze	May 11 54		
Guaranteed Sanitation Co. - acquired by	- micron filter	Feb. 2 68	Closure of ICI - report	June 15 62		
Diversey Corp.	Guard Chemical Co. - acquired by Alcolac	Feb. 2 26	Completes first hydrogen plant using steam-	May 9 37		
Chemical	Phenyl mercury fungicides	Mar. 9 55	naphtha reforming process	Feb. 9 27 75		
Guardian Chemical Corp. - nonstaining iodine	Guardian Chemical Corp. - nonstaining iodine	Feb. 16 25	Dyesuff intermediates expansion	May 11 54		
germicide, iodosene	germicide, iodosene	Feb. 23 127	Ethylene oxide and polyethylene project	with Spain's Calvo Sotelo	May 1 53	
Gulf Oil Corp. - alpha-olefins to be produced	Gulf Oil Corp. - alpha-olefins to be produced	June 15 51	Expansion projects: nylon polymer plants	Mar. 16 42		
commercially at Port Arthur, Tex.	commercially at Port Arthur, Tex.	Mar. 9 56	at Wilton and Billingham; automated	May 25 95		
Closes loop in fluidized cat cracker at	Closes loop in fluidized cat cracker at	Jan. 12 72	polyethylene bags plant	Jani. 5 36		
Philadelphia refinery	Philadelphia refinery	Mar. 30 50	Financial report for '62	Feb. 16 58		
Glass propping agent for hydraulic fractur-	Glass propping agent for hydraulic fracturing	June 22 49	General Chemicals Division and Alkali	June 15 61		
Hydrocracking process licensed to Wilsire	Hydrocracking process licensed to Wilsire	June 29 48	Division will merge	Mar. 30 58		
Legal proceedings underway to stop refin-	Legal proceedings underway to stop refin-	Feb. 16 26	High-stability plastic dye	June 22 37		
ery project at Bilbao, Spain	ery project at Bilbao, Spain	Apr. 27 26	Melinex film to be marketed in Canada	June 6 23		
Secondary stock offering proposed	Secondary stock offering proposed	Mar. 2 24	Mexican polyethylene resins project with	June 29 24		
Gulf Reduction Corp. - aluminum capacity	Gulf Reduction Corp. - aluminum capacity	Feb. 2 23	Pemex and Celulosa Y Derivado	Apr. 6 51		
doubled at Houston	doubled at Houston	Mar. 23 18	Nylon polymer expansion program	June 1 32		
Gulf Resources - acquires Delhi-Taylor's	Gulf Resources - acquires Delhi-Taylor's	Jan. 5 58	Plastics products venture with Yorkshire	Mar. 9 56		
ownership in Natural Gas Gathering	ownership in Natural Gas Gathering	Mar. 23 36	Imperial Metals	June 8 26		
Gulf Sulphur - production, sales, earnings up	Gulf Sulphur - production, sales, earnings up	Mar. 27 26	Polyester fiber patent frags in Germany	June 9 37		
Guyer, Hubert A. - breach of contract suit	Guyer, Hubert A. - breach of contract suit	Mar. 27 26	Polyester film marketing agreement with	June 9 37		
against Havex	against Havex	Mar. 23 56	Celanese	April 6 51		
HMS Corp. - digestion helper called Mr.	Hagan Chemicals & Controls - changes name	Mar. 30 25	Red China official visits plant	June 1 32		
Enzyme	to Calgon Corp.	Apr. 20 81	Spain approves petrochemical project	Mar. 9 56		
Shifts to chemicals, may change name to	Shifts to chemicals, may change name to	Apr. 13 49	Thermoplastic sheet called Vulkide A	June 8 26		
Haldor Topsoe, Inc. - autothermal reforming	Haldor Topsoe, Inc. - autothermal reforming	Apr. 27 82	Wage increases	Mar. 9 37		
Hall, Matthew - bids for Russian tire factory	Hall, Matthew - bids for Russian tire factory	Mar. 23 36	Imperial Chemical Industries of Australia and	June 9 37		
contract	contract	Apr. 27 26	New Zealand Ltd. - sulfuric acid plant	June 29 25		
Hamer-Holding - forms joint company with	Hamer-Holding - forms joint company with	Mar. 30 25	to be built at Yaquina, Victoria	Jan. 5 60		
Farbwerte Hoechst to acquire Thermalp	Farbwerte Hoechst to acquire Thermalp	Mar. 30 25	Imperial Chemical Industries (New York) -	June 29 25		
N.V.	N.V.	Apr. 27 82	changes name to ICI (New York)	Feb. 16 40		
Hamer Industries Inc. - acquires Wilube	Hamer Industries Inc. - acquires Wilube	Mar. 23 56	Imperial Oil Co. - joint collective bargaining	Jan. 5 44		
Chemical Co.	Chemical Co.	Mar. 30 25	drive	Mar. 2 42		
Leak detector	Leak detector	Apr. 20 81	Opposes hike in Canadian antiknock addi-	April 6 102		
Hamon, S. A. - Baldwin-Lima-Hamilton is	Hamon, S. A. - Baldwin-Lima-Hamilton is	Apr. 13 49	tive tariffs	Apr. 20 81		
U.S. sales agent for natural draft cooling	U.S. sales agent for natural draft cooling	Apr. 27 82	Industrial Biochemicals Inc. - sodium gluco-	June 8 29		
towers	towers	Mar. 23 36	mannose test, Trade Adjustment	Assistance Provision		
Hard-Low Chemical Co. - NLRB hits anti-	Hard-Low Chemical Co. - NLRB hits anti-	Apr. 27 26	Industrial Bio-Test Laboratories, Inc. - builds	Jan. 5 44		
unionism	unionism	Mar. 30 25	toxicological laboratory, expands adminis-	Mar. 2 42		
Harrison & Abramovitz - will build Hall of	Harrison & Abramovitz - will build Hall of	Mar. 30 49	tration building at Northbrook, Ill.; buys	June 29 25		
Science Building for World's Fair	Science Building for World's Fair	Apr. 27 82	farms for use in testing ag-chemicals	June 29 25		
Harshaw Chemical - Kentucky Color Div. -	Harshaw Chemical - Kentucky Color Div. -	Mar. 23 163	Industrial Chemical Specialties Corp. - aero-	June 29 25		
wage boost	wage boost	May 11 33	sol etcher	June 29 25		
Harvey Aluminum - completes plans for	Harvey Aluminum - completes plans for	June 15 44	Industrial Engineering Corp. - Plastics Div.	April 6 102		
aluminum rolling mill near Lewisport, Ky.	aluminum rolling mill near Lewisport, Ky.	June 1 24	- resilient, synthetic-foam cylinder for	April 20 81		
Virgin Islands alumina project well under	Virgin Islands alumina project well under	Feb. 23 163	cleaning pipes	Jan. 19 29		
way	way	May 1 31	Industrial Tectonics, Inc. - ball floats	June 29 25		
Norwegian aluminum venture with Norsk-	Norwegian aluminum venture with Norsk-	June 29 26	Information for Industry Inc. - magnetic tape	April 20 81		
Hydro	Hydro	Jan. 5 58	file of chemical industry patents	Jan. 9 65		
Havex Industries Inc. - breach of contract suit	Havex Industries Inc. - breach of contract suit	Mar. 16 86	Ing. Mario Ballestra & Co. - sulfur-to-syndet	Jan. 5 67		
Hay, John I., Co. - merges with Mechling	Hay, John I., Co. - merges with Mechling	June 29 39	processes battle	Feb. 16 26		
Barge Lines	Barge Lines	June 22 73	Ingersoll-Rand Co. - air dryer	Jan. 12 43		
Hays Corp. - gas sampler, Auto-Scanner	Hays Corp. - gas sampler, Auto-Scanner	Apr. 20-26, June 15 26	Vertical, in-line centrifugal pump	June 29 25		
Pressure transmitter	Pressure transmitter	Apr. 20-26, June 15 26	Ingram-Bloch Corp. - appoints Flallow as West	April 27 55		
			Coast distributor	June 29 25		
			INI - starts legal proceedings to stop Cepsa-	April 27 55		
			Gulf refinery project at Bilbao	June 29 25		
			Integral Motor Pump Corp. - high-temperature	April 29 23		
			pump	June 29 25		
			Interchemical Corp. - Color and Chemicals	June 22 26		
			Division - Hawthorne, N.J., plant	Apr. 27 55		
			expansion	June 29 25		
			Imine and chloride intermediates	April 27 55		
			Propyleneimine production	June 29 25		
			Interhandel - GAF case: Justice Dept. tries	Mar. 2 27		
			to negotiate out-of-court settlement	Mar. 9 25		
			GAF case settled	Mar. 6 18		
			Stockholders approve GAF deal	June 22 26		

International Business Machines – audio signals have been transmitted over a light beam generated by an injection laser.....	June 1	92	Jorgensen, Roy, and Associates – developing nonchemical means of preventing or removing snow and ice.....	Apr. 20	37	Thermosetting resins research Wood Preserving Div. – celon-treated wood	Jan. May	5 18	42 64
Data Processing Division – microfilm aperture card equipment uses thermal film	June 1	125	Kriskeill Laboratories, Inc. – barbituric derivatives	Jan. Feb.	26 23	Kriskeill Laboratories, Inc. – barbituric derivatives	Jan. Feb.	26 23	91 93
Experimental machine translates Chinese into English.....	June 8	47	Krashikai Rayon – vinylon plant export contract negotiations with Red China's National Technology Corp.	June May	8 25	Krashikai Rayon – vinylon plant export contract negotiations with Red China's National Technology Corp.	June May	8 25	26 90
Injection laser uses indium phosphide	May 11	59	Vinylon plant export deal with Red China						
Optical transistor developed	Mar. 16	64	K & K Laboratories – moves headquarters and analytical control section to Plainview, L.I., N.Y.	May	25	LIRC – Itaconyl licensing agreement with Pfizer	Mar.	30	58
Unit operations simulation program for engineering design.....	Mar. 9	62	Kaiser Aluminum & Chemical Corp. – aluminum extrusions project at Sherman, Tex.	June	1	L & R Manufacturing Co. – ultrasonic cleaning solutions	Jan.	26	92
International Harvester Co. – Wisconsin Steel Works will use basic oxygen furnaces	Jan. 12	25	Aluminum production cutback at Mead, Wash.	Feb.	9	Labatt, John – acquires Delmar Chemicals.	Mar.	30	58
International Helium Co. – helium plant to be built in Saskatchewan; negotiates for assets of Coast Exploration	Apr. 27	75	Kaiser Chemicals Div. gets first president, Stanley White	Feb.	16	Lammott Chemical Products Co. – portable pool-water laboratory kit	Feb.	9	75
International Latex Corp. – Goodyear appeals ruling that would permit a former employee and space suit expert to work for its competitor.....	Apr. 27	38	Lithium carbonate project with Leprechaun Mining – agreement terminated	Mar.	23	Landin-Parks, Inc. – merger negotiations with Max Factor	June	22	26
Trade secret victory for Goodyear	June 1	30	Ravenswood, W. Va., plant will use new glass-armored rubber hose	Jan.	12	Laporte Industries, Ltd. – cyclohexanol and cyclohexane project	Mar.	9	37
International Minerals & Chemical Corp. – barite exploration in Washington County area of Missouri	Jan. 12	25	Terminates interest in Leprechaun's lithium-potash properties	May	4	Hydrogen peroxide process licensing negotiations with three Japanese companies; peroxide plant to be built in Botany, Australia	June	29	26
Consolidates: (1) agricultural products production; (2) sales and marketing of agricultural products; (3) development of new overseas ventures	Mar. 2	26	Transfers electrical engineering research and development facilities to its Newark, O., wire and cable plant	Jan.	5	Titanium dioxide project at Mojave, Calif. – 15% ownership dropped	Apr.	13	28
Drilling-mud companies consolidated; distribution contract with Duncan Supply	Feb. 2	18	Kaiser Engineering – liquid hydrogen plant to be built for Linde at Sacramento, Calif.	Feb.	9	Laramax Products Co. – stainless-steel-clad elements for plastic welding torch	May	25	43
India partnership – letter	Feb. 16	16	Kaiser Gypsum buys gypsum ore deposit in Nova Scotia	May	11	Lasco Industries – builds addition to plant and headquarters building to increase capacity for plastic panels, pipe	Jan.	5	25
Industry Minerals Division – pure silicones	June 15	51	Kaiser Steel Corp. – pay bonus at Fontana, Calif.	June	29	Lawrence Radiation Laboratory – periodic table for nuclear particles proposed	Jan.	12	62
Potash beneficiation needed may double reserves at Carlsbad, N.M., mine	Apr. 20	76	Kalum Chemicals, Ltd. – solution mining of Saskatchewan potash moves closer	Feb. 9-67	Mar.	Lawson Chemical Products Co. – aerosol plant completed	Mar.	23	66
Potash mine near Estherville, S.D. – second shaft planned; phosphate mine and plant to be built at Soda Springs, Ida.	May 4	24	Solution mining potash project – Stearns-Roger gets contract	May	4	Lawter Chemicals – printing ink resin	Apr.	6	101
Suspension fertilizers study	Jan. 19	61	Kalvac Corp. – thermal film used in data storage systems	June	1	Lederle Chemical Co. – merger with Cindet Chemicals	Jan.	19	27
International Nickel Co. of Canada – laboratory to be built at Ontario Research Community	Feb. 2	53	Kao-Afina Joint subsidiary of Atlas Chemical and Kao Soap, approved by Japanese government	May	25	Leeds & Northrup Co. – strike settled	Jan.	12	83
International Packers Ltd. – Armour will sell part of its interest	June 15	26	Kao Soap Co. – Chemicals venture with Afia Chemicals	May	25	Lehn & Fink Products Corp. – Lysol disinfectant in spray form	Mar.	23	36
International Paper Co. – construction program at Natchez, Miss., mill	Apr. 13	28	Kaplex Laboratories – vinyl bromide available	Jan.	26	Leprechaun Mining and Chemical – Kaiser terminates interest in lithium-potash properties	May	4	64
Expands mill at Moss Point, Miss.	June 29	25	Karagheusian, A. & M., Inc. – polypropylene carpet maker	Feb.	16	Lithium carbonate project at Silver Peak, Nev. – agreement with Kaiser terminated	Mar.	23	102
Southern Kraft Division – Tabor negotiations	June 1	44	Karstron Co. – volumetric filler	Feb.	9	Lerner Packaging Corp. – acquires Multiple Products Corp.	May	11	26
International Pipe and Ceramics Corp. – absorbs du Verre Inc., a subsidiary, into its Corrosion Control Division	Feb. 23	45	Kawecski Chemical Co. – aims for another sales record this year	June	15	Leslie-Agriform Corp. – new subsidiary of Leslie Salt and Agriform Chemical, will research, develop and market new types of fertilizers	Feb.	23	45
Ceramics research center planned	Apr. 20	42	Makes 35,180-ft. superconducting wire of columbium and zirconium	Apr.	6	Planting tablet, Blue Chip, fertilizes without burning roots	Apr.	27	50
International Pulp and Paper – Philippine kraft paper and newsprint project with Soriano	June 8	26	Kelley Island-New York Corp. – lime plant at Buffalo, N.Y., shut down	May	25	Leslie Salt Co. – fertilizer subsidiary established with Agriform Chemical	Feb.	23	45
International Salt Co. – evaporated salt expansion at Watkins Glen, N.Y.	Jan. 19	62	Kellogg M. W., Co. – catalytic process makes chlorine from hydrogen chloride	Mar.	30	Lestoil Products, Inc. – acquires C. M. Kimball Co.	June	15	26
Sodium chloride additives patent infringement suit settled	Mar. 2	26	Hydrogassification of coal program	May	25	Debt security issue proposed	Feb.	9	26
International Synthetic Rubber – diene-type polybutadiene to be produced in Scotland	Mar. 23	23	Research and development center to be built at Piscataway Township, N.J.	Feb.	9	Dividend omitted	Apr.	13	28
Internationale Gas Transport Maatschappij N.V. – gas from the Netherlands to other European countries	June 1	128	Kelly Girl Service – launches program to supply temporary personnel for sales campaigns	Mar.	23	Leuna-Werke – high-pressure polyethylene plant planned; Schkopau low-pressure PE plant expansion	Jan.	26	53
Interstate Electronics Corp. – instrument calibrator	June 1	128	Kendall Co. – Bauer & Black Div. – research center opened at Barrington, Ill.	Feb.	9	Lever Brothers – fabric softener called Final Touch	Apr.	27	52
Interstate Enamel – marketing automotive aerosol paint line	Mar. 9	55	Kenrich Petrochemicals – hydrocarbon oil plasticizer	Apr.	27	Federal judge okays acquisition of "all" detergent	May	11	21
Interstate Research Institute – biological research lab to be built at Champaign-Urbana, Ill., research park	Jan. 26	85	Kent Chemical Ltd. – rare-earth solutions	Apr.	6	Programmed instruction used to develop sales skills	Jan.	5	26
Isocem Resins – flexible epoxies	June 1	128	Kemac Nuclear Fuels Corp. – completes facility near Bowman, N.D., for buying uranium-bearing lignite	June	1	Lever Bros. South Africa – acquires controlling interest in Silicate and Chemical Industry, and its two subsidiaries: Sodium Chemicals and Commercial Chemicals	Mar.	9	37
Flexible resins	June 29	39	Vanadium oxide from phosphate tailings venture	Mar.	16	Lewis & Peat, Ltd. – has interest in natural rubber and fibers	June	29	26
Jablo Plastics Industries – acquired by Monsanto Chemicals Ltd.	Jan. 26	53	Kemac Potash Co. – National Farmers outlines \$20-million potash project	Apr.	27	Libby-Owens Ford Glass Co. – Roat glass licensed from Pittington	May	11	60
Jain-Pacific Co. – refrigerant gas lawsuit	Apr. 13	42	Kemco County Land Co. – Bonneville stockholder takes further legal measures to block sale	Feb.	23	Liggett & Myers – appoints agent for foreign licensing of reconstituted tobacco process	Feb.	2	64
Japan Ammonium Sulphate Export Co. – urea deal with Red China	Mar. 16	42	Bonneville stockholders clash over proposed sale	Jan.	12	Light, L. & Co., Ltd. – amorphous arsenic	Mar.	2	41
Japanese Geon Co., Ltd. – licenses stereo rubber know-how from Goodrich Gulf	May 18	18	Bonneville stockholders vote to accept Standard Magnesium offer	Feb.	16	Lilly, E. & English will be supply center for overseas sales	June	8	26
Jefferson Chemical – direct-glycidation ethylene oxide plant to be built at Port Neches, Tex.	Feb. 2	17	Phosphate rock investigation in Shoshone Basin area of southwest Wyoming	June	8	Lilly Research Laboratories – pharmaceutical research group set up by Eli Lilly at Liverpool, England	June	8	26
Glycol ether plant to be built at Port Neches, Tex.	May 18	18	Kern-McGee Oil Industries acquires T. J. Moss Tea Co., calls off acquisition of Cheyenne Hill and Lumber Co.	June	1	Linde Co. – acquires option on tract near Edgewater, Fla.	Jan.	8	26
Jelvin Instrument Corp. – vacuum gauge	June 1	107	Smith-Douglas acquisition denied, speculation continues	June	8	First on-site West Coast oxygen-nitrogen plant to be built at Antioch, Calif.	Jan.	5	17
Jersey Production Research Co. – establishes branch laboratory near Paris in collaboration with Esso REP	Jan. 5	44	Smith-Douglas merger would result in full-line fertilizer operation	June	15	Liquid hydrogen plant at Sacramento, Calif. to be built by Kaiser	Mar.	23	18
Jervis Corp. – vinyl fabric lawsuit	Apr. 13	42	Kimball, C. M., Co. – acquired by Lestoil Products	June	15	Liquid hydrogen plant near Sacramento, Calif. – ground breaking	Feb.	9	26
Jewel Tea, Inc. – private labeler scores in specialties marketing	May 4	58	Kimberly-Clark Corp. – new process may improve pulp yields	June	29	Liquid nitrogen contract with Aerojet-General	Mar.	23	26
Johnson & Johnson – decal material	Jan. 5	36	Wage agreement	June	29	Lithium Corp. of America – annual meeting	Jan.	26	27
Johnson, S. C., & Son, Inc. – Latin American operations expanded	Feb. 16	45	Kokanakagaku – merger discussions with Showa Yuka	Jan.	26	Developing lithium hypochlorite bleach	May	25	53
Low-luster furniture polish	June 29	39	Kokusaku Pulp Industry Co. – five Japanese firms export rayon plant to Pakistan	Jan.	12	LCA lithium hypochlorite laundry bleach may be used in swimming-pools	May	4	64
Pledge furniture polish trademark infringement suit	Jan. 12	85	Komline-Sanderson Engineering Corp. – Process Equipment Division forms Process Equipment Dept. to market new filter lines	Apr.	27	Owens majority interest in Beryllium Metals & Chemicals	Feb.	9	75
Johnson, W. E., Inc. – merger complaint dismissed	June 1	54	Koppers Co. – acquires American Cyanamid's Bridgeville, Pa., plant	Apr.	20	Little, Arthur D. – Sweeney, George, discusses fertilizer import problem	Mar.	23	22
Johnson's Wax International – Netherlands project announced; data-processing center to be set up for European affiliates	Jan. 12	57	Acrylic latex production plans	May	25	Lloyd Brothers – acquires National Laboratories; Farwerke Hoechst acquires Lloyd	June	15	98
Joint Fire Research Organization (England) – fire-fighting by jet engine	June 22	44	Argentine polyethylene plant start-up	Mar.	23	Lockheed Aircraft Corp. – Brush Beryllium accused of overcharging on Polaris missile subcontract	Jan.	5	67
Jomac-North Inc. – lightweight protective clothing	Apr. 20	81	Brazilian made Itaconyl to be marketed by Pfizer	Mar.	30	Lockheed Missiles & Space Co. – consolidates advanced-program groups and its R&D center in Huntsville, Ala.	June	1	54
Jones & Laughlin Steel Corp. – Graham Research Laboratory at Baldwin Hill – expansion completed	Jan. 5	44	Chemicals & Dyestuffs Division – resorcinol prices	June	1	Lockheed Propulsion Co. – AF contract for demonstration of vector control using jet tabs on single-segment booster	Apr.	27	30
			Foy, Fred, proposes creation of government-owned corporation to encourage private U.S. investment in developing countries, particularly Latin America	Mar.	16				
			Plastics Div. – paper coating latex	Feb.	23				
			Strategic Materials' stockholders will vote on refinancing proposal that would make Koppers responsible for managing concern	Feb.	23				
			Takes over management of Strategic Materials	Jan.	26				
			expansion completed	Jan.	23				

Builds propellant research, development and testing laboratories at Redlands, Calif.	June 1	128	Merck & Co. - Aries, Robert, jailed in France - letter	Jan. 12	7	stration statement with SEC; will produce rare-earth chlorides and mischmetal at York, Pa.; prospects for new molybdenum sulfide ore body in New Mexico	May 18	23
Snuffs out rocket motor burning highly aluminized propellant	Apr. 6	69	Cuban prisoner ransom contribution	Jan. 26	5	Mona Industries Inc. - cationic surfactants	Jan. 12	43
Lockheed Research Labs - gold-plating by aerosols	Mar. 30	50	Flavoring agent, Mertaste	May 4	69	Monsanto Chemical Co. - acquires complete control of Shawinigan Resins	Apr. 13	19
Lone Star Producing Co. - ammonia project at Kereks, Tex.	June 29	57	Latendresse, James, manager of organization and development	Jan. 19	43	Acquires oil and natural gas assets of Mound Co.	June 22	26
Chemical Div. plans fertilizer complex for Navarro County, Tex.	Feb. 16	58	Vitamin B12 patent infringement suit against Richter Pharmaceutical	Feb. 9	24	Ammonia plant on stream at Muscatine, Ia.	Jan. 12	71
Nitrogen products complex to be built in the Texas Blacklands area. Feb. 9-18.	Apr. 6	23	Merck Sharp & Dohme - wage agreement	May 18	81	A.V.C. Corp. will take over stock held by American Viscose	May 18	22
Plans petrochemical installation to make nitrogenous fertilizer products from natural gas	Mar. 2	26	Meridian Laboratory - current and voltage transmitter	May 25	43	Biodegradable detergent raw material production planned	June 22	18
Ludlow Corp. - acquires majority of outstanding stock of Marvellous Co.	Jan. 19	27	Metal & Thermite Corp. see M&T Chemicals Inc.	June 22	37	Chemstrand - acrylic fiber expansion at Decatur, Ala.	Jan. 12	72
Lurado Manufacturing Co. - acquired by Essex Chemical	Mar. 2	26	Metal Box Co. Ltd. - plastic film business consolidated with Shorko Packaging under new name Shorko-Metal Box	Apr. 13	91	Chemstrand - nylon tricot promotion campaign	June 8	60
Lynn Chemical Co. - moves to Lubbock, Tex.	May 11	26	Metal Hydrides Inc. - borohydrides: TEAB and TMAB compounds	Apr. 13	26	Chemstrand division - TV push for Acrlan acrylic fiber	Jan. 19	37
M&T Chemicals, Inc. - deöffining plant at Seattle, Wash. - completion	June 29	58	Firms company with Aldrich Chemical to make unusual inorganics Apr. 6-70.	Apr. 27	82	Chemstrand Ltd. - acrylic fiber plant at Coleraine, Northern Ireland - expansion	Feb. 23	57
Foam vinyl plastisol for stripable packaging	Feb. 23	99	Metal Industries, Ltd. - bids for Russian tire factory	June 15	98	Compounded vinyl profile extrusion line debuts	Feb. 23	129
Fume-suppressing chromium plating compound	Jan. 5	36	Metallgesellschaft AG. - polyethylene emulsions marketing agreement with Spencer Chemical	Feb. 23	57	Diversifies itself of 40% interest in Siedisdon; establishes European headquarters at Brussels	Mar. 9	37
Organometallics venture in Zaandam, Netherlands with Billiton Maatschappij	Mar. 30	58	Mettallund Rohstoff AG. - Israeli bromides plant onstream	Jan. 5	36	Electronic chemicals plant at St. Charles Mo. expansion	Feb. 16	20
Tin plating process	Feb. 2	66	Metalwerk Plansee - carbide parts made from '850' grade carbide, for use in ultrahigh-pressure applications	Apr. 13-59	17	Federal judge okays Lever's acquisition of 'all'	May 11	21
Macrosomics Corp. - ultrasonics research joint venture with Ontario Research Foundation	Feb. 23	114	Metaco, Inc. - nickel aluminide coating material	May 11	47	Hedley, W. H., describes physical properties of Metco as applied to nuclear reactors	Apr. 20	69
Magnet Copper - antitrust complaint involves acquisition of stock by Newman Mining Antitrust complaint - Newman will fight suit	Jan. 12	23	Mettur Chemical and Industrial Corp. - will supply chlorine for polyvinyl chloride project at Mettler	Mar. 2	33	Inorganic Div. - chlorinated cyanuric acid plant at Monsanto, Ill., onstream	Apr. 13	79
Borrow \$54 million from Prudential to pay back balance on government loan	Jan. 19	20	Michigan Chemical Corp. - bromosacetyl bromide	June 22	73	Iron-free alum production dropped because of import competition	May 25	152
First cash dividend since '49	Feb. 23	45	Pool algicide available for repackaging under private label	Apr. 27	52	May become sole owner of Shawinigan Resins	Mar. 2	17
Magnet Cove Barium Corp. - North Carolina Pamlico River phosphate mining project with Smith-Douglas	Mar. 16	26	Velsicol Chemical acquires more than 260,000 shares in firm	Jan. 12	18	Metalurgical leach process licensing rights	May 4	55
Sampling cores of phosphate ore extracted from Pungo River in North Carolina	Feb. 9	24	Velsicol increases interest	Mar. 23	17	Missouri oil lease decision reversed	Jan. 5	58
Magnus Chemical Co. - chemicals for spill cleanup	May 11	26	Mid-American Pipeline Co. - expansion plans	Feb. 16	19	1962 financial results - effect of new tax directives	Feb. 2	21
Pump cart	May 18	67	Midland Cooperatives - merging with Central Cooperatives	June 1	31	Nylon-6/6 filament yarns plant may be built in Luxembourg	Apr. 13	59
Mallinckrodt Chemical Works - teamsters turned down at St. Louis	Jan. 5	57	Midland-Ross Corp. - Surface Combustion Division builds laboratory for studying heat transfer systems	June 29	44	Plasticizer called Sanitizer 462	June 22	74
"Unipolar" generator purchased from Allis-Chalmers	Feb. 9	68	Mid-South Chemical - Cities Service sells assets to Continental Oil	June 8	19	Propylene and ethylene forecast, by Norman Lewis	Mar. 30	68
Mann Research Laboratories, Inc. - glucosamine derivatives	Jan. 12	43	Midstates Oil Co. - minority stockholders lawsuit - final ruling	Mar. 30	36	Research and engineering functions separated	June 8	48
Mannesman Research Institute - develops tough new nitrogen-containing steel	June 22	73	Midwest Oil Corp. - acquires potash leases north of Moab, Utah	May 25	56	Rubber tester	May 18	67
Manostat Corp. - vinylizing spray	Feb. 23	156	Miles Laboratories - citric suit: new ruling, same result	Apr. 13	27	Sales and earnings	Jan. 26	18
Manufacturers Engineering and Equipment Corp. - vaporizing valve	June 15	52	Sales and earnings	June 15	79	Sales and earnings: Chocolate Bayou plant on schedule after three-week shutdown	Apr. 20	18
Manufacturing Guardian Chemical - New York puts embargo on urinary tract drug called Renacidin	Mar. 22	30	Miller, I. - corfam polyester fiber shoes	Mar. 9	56	Sodium and calcium cyclamate sweeteners production planned	May 4	24
Maradol Products - acquires Commerce Drug Co.	Feb. 9	26	Miller-Stephenson Chemical Co. - industrial spray cleaner	Apr. 27	24	Takes over stewardship of Universal Minerals & Metals' Kansas City, Mo., powdered metals plant	May 11	24
Acquisition of House of Tre-Jur. Apr. 20-26, Cosmic industry forecast, by George Abrams	June 15	26	Mold-release agent and lubricant	June 15	79	Weed killer, Lambast	Mar. 9	56
Purchased Dorrance Laboratories Division of Textrol	Apr. 20	26	Millmaster Chemical - Carter Products acquires 50% interest	Feb. 2	18	Wind, Alabama, Coosa River, pollution case	Apr. 6	32
Marathon Southern Corp. - pulp and paper expansion at Butler, Ala.	Apr. 6	27	Minerals Safety Appliances Co. - gun-spraying semigrid urethane foam - new system	Jan. 26	18	Monsanto Chemicals Ltd. - acquires Jabil Plastics Industries	Jan. 26	53
Marine Transport Lines - Marine Sulphur Quench litigation	June 22	73	Steam analyzer	Feb. 9	49	Improved sales trend reported	May 4	38
Tanker Marine Sulphur Queen lost at sea	Feb. 23	36,89	Mineral Concentrates & Chemical - beryllium processing plant at Loveland, Colo. - financial backing sought	Jan. 19	26	Monsanto Europe - will coordinate Monsanto's exports and European manufacturing	Mar. 9	37
Martin Engineering Co. - electromechanical vibrators	Feb. 16	58	Mingo Oxygen Co. - oxygen expansion	June 22	26	Monsanto Research Corp. - antiradiation drugs report	Feb. 2	32
Martin Marietta Corp. - agrees to divest itself of 75 cement plants	Apr. 20	81	Minneapolis-Honeywell Regulator Co. - Special Systems Div. - industrial process control computer systems are first to use silicon semiconductors	Jan. 26	91	Perfluoro polyameric ethers are not suitable for fire-resistant hydraulic fluids	Apr. 27	60
Sprint missile propulsion system contract awarded to Hercules Powder	Mar. 30	28	Minnesota Mining and Manufacturing Co. - carbonless carbon paper patent infringement suit	Mar. 9	18	Monsanto U.K. - financial report for '62	Mar. 16	42
Martin Metals Co. - metals technology lab opened at Portland, Ore.	May 11	26	Ceramic microspheres containing yttrium-90 supplied to medical researchers for studies of internal radiation treatment of cancer	Jan. 5	46	Montana Phosphate Products Co. - Douglas Mine project gets under way Jan. 5-22, Montecatini acrylene process hassle with Diamond Alkali	Apr. 6	27
Marvellous Co. - Ludlow acquires majority of outstanding stock	Mar. 9	87	Coated abrasives antitrust complaint by General Plywood	Mar. 23	24	Chromate discontinues imports of polypropylene film and fiber	Feb. 9	68
Mason Electric Co. - acquisition by Ansal Chemical	Jan. 19	27	Dividend upped	Feb. 23	45	Cyclooctadiene is third monomer in ethylene-propylene terpolymers	Apr. 13	25
Mast Development Co. - strip-chart calibrator	June 1	29	Merger talks with Dynacolor Corp.	Apr. 13	26	Dutch polypropylene venture with Royal Dutch Shell	Feb. 9	37
Master Mechanics Co. - builds manufacturing plant in Brussels, Belgium	Apr. 20	81	Ocaftaupropane for use as gaseous dielectric	May 25	43	Elastomeric polymers patent swap with Dunlop Rubber	Feb. 16	26
Materials Research Corp. - high-purity tungsten powder	June 8	66	Plans acquisition of Dynacolor Corp.; sales and earnings	June 29	18	Management appointments	Mar. 16	42
Matheson Co. - Belmore, F.M., new president	June 29	39	Mississippi River Fuel Corp. - Portland cement plant to be built near Festus, Mo.	June 8	25	Pesticides venture with Shell Italiana	June 15	21
Compressed gases plant and warehouse being built in Atlanta, Ga.	May 4	23	Mississippi Valley Barge Line Co. - acquires interest in Water Treatment Corp.	Feb. 23	45	Polypropylene flight - Austria halts imports of Avisun material	Mar. 23	78
May, Otto B. - Mayfor dyestuffs for polypropylene fibers	May 4	24	Mitchell Rubber Products Co. - merges with Tetrafluor to form Amerco Inc.	Mar. 23	26	Sales and earnings	Apr. 20	54
McKeown Flexible Coating Co. - CAH Industries acquire business and inventory	Mar. 23	77	Mitron Research and Development Corp. - titanium welding technique	Feb. 16	75	Spain approves petrochemical project	June 1	32
McKesson & Robbins - Nolen, Herman C., defines a global corporation	June 15	26	Mitsubishi Heavy Industries - five Japanese firms export rayon plant to Pakistan	Jan. 12	57	Monteshell - joint venture of Shell Italiana and Montecatini, will sell and distribute pesticides in Italy	Mar. 16	42
Organizes Independent Druggists' League	May 4	5	Mitsubishi Shoji - five Japanese firms export rayon plant to Pakistan	Jan. 12	57	Moss, T. J., Tie Co. - Kerr-McGee acquires outstanding stock	June 1	31
Mead Johnson & Co. - research center expansion at Evansville, Ind.	Mar. 30	31	Mitsui Polychemical - polyethylene capacity increase planned	Feb. 16	26	Mountain Co. - oil and natural gas assets sold to Monsanto	June 22	26
Mechanical Reliability Research Center - established by Battelle and industrial firms in Columbus, O.	Jan. 5	44	Mobil Chemical - Kreider, Rae, Jr., vice-president for planning and development	Jan. 19	43	Mountain Fuel Supply Co. - phosphate leases in Idaho's Georgetown Canyon	June 1	31
Mechling, A. L., Barge Lines - merges with John L. Hay	June 29	44	Mitsubishi Rayon used for custody transfer	Jan. 12	57	Multi-Metal Wire Cloth Co. - Teflon filter cloth	Jan. 5	35
Melanie Chemical Corp. - acquisition by Nodisco proposed	Mar. 16	86	Terephthalic acid/antifreeze planned; acquires Olin's terephthalic, BHT, and soaphatic processes	Feb. 23	99	Multi-Minerals Ltd. - phosphoric acid from Canadian ores project under study	Mar. 30-41	6
Mellon Institute - thermosetting acrylic materials research	Mar. 30	25	Mobil Oil Co. - acquires Goliad Corp.	Jan. 12	23	Multiple Products Corp. - acquired by Lemer Packaging Corp.	May 11	26
Mercer Yarn - U.S. Rubber acquires physical assets	Jan. 5	42	Mobil Plastics Development Corp. - will program Mobil worldwide plastics fabrication business	Feb. 16	26	Mutrie, P. B., Motor Transportation Corp. - automated truck-cleaning system	Apr. 20	90
Apr. 13	28	Modermain Corp. - bidдер value	Jan. 19	43	Nabors Mfg. Corp. - sales representative for Nopco Chemical's plastics division	May 11	26	
Apr. 13	28	Molybdenum Corp. v. America - files reg-	Apr. 13	99				

Nadisco Inc. - acquisition of Consolidated Aerosol Corp., including Melanic Chemical Corp., proposed	Mar. 30	25	New York Air Brake Co. - BIF Division - dry feeder	May 11	47	Safety information center set up	June 22	46
Aerosol tire inflator sales, sales offices established at Highland Park, Mich.	June 8	68	Newmont Mining - antitrust violation charged in acquisition of stock in Magma Copper and Phelps Dodge	Jan. 12	23	Solid-state data center	Mar. 9	84
Naftron Inc. - nontoxic fungicide and bactericide	Apr. 27	55	Firm will fight suit	Jan. 19	20	O'Brien Industries, Inc. - coagulant aid	June 1	108
Nalco Chemical - combination scale and corrosion inhibitor for potable water supplies	May 4	70	Wah Chang acquisition - financial hitch could scuttle deal	May 25	33	Occidental Petroleum - acquires Best Fertilizer	June 1	24
Explosion delays startup of TEL-TML plant at Freeport, Tex.	Feb. 9	77	Nippon Kayaku - hydrogen peroxide process licensing negotiations with Laporte Industries	June 29	26	Odessa Natural Gasoline Co. - ammonia plant to be built at Odessa, Tex.	June 29	58
Nassau Associates - oil and gas properties acquired by Fluor	Jan. 19	27	Nippon Kokan Chemical - phosphoric acid and gypsum from phosphate rock	Mar. 2	56	Oemv(Austria) - will supply butane for isoprene rubber plant	Mar. 23	56
National Corp. - acquires Zimmerman Machinery Co.	May 4	24	Nippon Metal - aluminum export cartel	Mar. 16	20	Oesterreichische Rieg AG. - Austrian isoprene rubber project	Mar. 23	56
National Cash Register - carbonless carbon paper patent infringement suit	Mar. 9	18	Nippon Petrochemicals - ethylene plant comes under computer control	June 22	49	Oesterreichische Stickstoffwerke AG. - Austrian-Soviet bloc trade agreement may lead to strike	Jan. 12	57
Solar cells process awarded new AF contract	June 22	50	Polyethylene licensing agreement with Royal	June 29	26	Fertilizer profits down	Feb. 23	57
National Container Corp. - Owens-Illinois settles antitrust suit	June 22	25	Nirlon Synthetic Fibres and Chemicals (Private) Ltd. - will be converted into a public limited-liability company	Feb. 23	57	Other Corp. - dry materials valve	Apr. 27	56
National Controls (Canada) Ltd. - device for motor vehicle crankcase	Feb. 23	100	Nitto Unicar - polyethylene capacity increase planned	Feb. 16	26	Ohio River Oil Co. - Kentucky court awards oil and gas rights to Henderson County	Apr. 13	42
National Dairy Products Co. - Robinson-Patman Act phrase upheld	Mar. 2	27	Non-Linear Systems, Inc. - production statistics analyzer	Jan. 26	91	The Oil Shale Corp. - crude oil from Colorado shale rock project - financing plan	June 15	26
National Distillers and Chemical Corp. - International Division established; second government liaison office opened in Washington, D.C.	Feb. 23	45	Nopco Chemical Co. - acquires subsidiaries in Norway and England by taking over the Nopco product-manufacturing facilities set up by two companies, Senko Kjemisk and Adolph Hess.	Feb. 9	37	O'Leary, Lydia, Inc. - "misleading" container labeling	Mar. 9	17
Mente, Alvin, Jr., director of government requirements	Jan. 19	43	Consolidates plastics division operations at Kearny and North Arlington, N.J. with urethane foam plant at Plainfield, N.J.	Apr. 20	26	Olin Mathieson Chemical Corp. - charged with concealing kickbacks in drug sales involving U.S. foreign aid funds	Mar. 16	36
Titanium tetrachloride plant at Ashtabula, O., sold to Cabot Titan	Feb. 9	18	Gasoline additive	Feb. 9	50	Chlorine-caustic plant to be built near Augusta, Ga.	Jan. 26	23
U.S. Industrial Chemicals - high-density polyethylene plant near Houston, Tex., onstream	Mar. 23	102	Industrial Div. - anionic water-soluble polymer useful as latex system dispersant	Feb. 23	94	Dixon Chemical industries will get financial and marketing aid from Olin	Jan. 12	23
U.S. Industrial Chemical - polyethylene cable coating resin	Jan. 26	92	Nabors Mfg. is sales representative for plastics division	May 11	26	Dixon Chemical recapitalization plan moves ahead	Feb. 9	17
U.S. Industrial Chemicals - polyethylene resins market forecast	Apr. 27	72	Will make urethane foam products at Plainfield, N.J. site leased from Worthington	Apr. 6	27	Dixon Chemical's refinancing plan completed	Apr. 6	17
U.S. Industrial Film Products Div. finds new home at Stratford, Conn. Kordite takes over Macedon, N.Y., units	Apr. 13	25	Nopco Hess Ltd. - new subsidiary of Nopco Chemical	Feb. 9	37	Logan, John, scotches rumor of exodus from Niagara Falls, N.Y.	Mar. 2	25
National Farmers Union - closeup of potash project - from financing to merchandising	Apr. 27	25	Nopco Senko A/S - new subsidiary formed by Nopco Chemical	Feb. 9	37	Niagara Falls, N.Y., plant relocation charges denied	Feb. 23	160
National Gypsum Co. - expands asbestos plant at Thetford Mines, Ont., and fiberboard plant at Mobile, Ala.	Jan. 12	25	Norrlands Skogsgräns Cellulosa AB - negotiating for Hissmofors and Agffors sulfite plants near Östersund: acquires Homefors' sulfite plant in Västerbotten and the Sandvikens sulfite plant in Ängermanland	May 11	28	Organics Division - ortho and meta isomers of aminobenzotrifluoride	Mar. 9	37
National Helium Corp. - conservation program - firm refuses to modify contract Jan. 26-23	Feb. 16	21	Norse Chemical - cyclamate sweeteners piracy case	Mar. 9	18	Osborne, Stanley, outlines chemical development plans	June 1	107
National Industrial Equipment Co. - invisible bug 'screen' developed	May 11	42	Sodium and calcium cyclamate plant in operation at Cudahy, Wis.	Mar. 2	61	Pintsch Bamag will install Olin's E-11 mercury cell process for making chlorine and caustic soda in all countries except U.S. and Canada	Apr. 6	23
National Institute of Economic and Social Research (Gt. Brit.) - survey of production, exports, capital spending for 13 companies	Feb. 2	46	Norsk-Hydro - aluminum venture with Harvey Aluminum	June 29	26	Rebuilds Lake Charles, La., hydrazine plant; expands waste disposal facilities	Mar. 9	37
National Laboratories Corp. - acquired by Lloyd Brothers	Jan. 5	67	North American Aviation Inc. - Atomics International - AEC contract extended	Feb. 23	116	Terephthalic acid, BHT, and isophthalic acid processes sold to Mobil Chemical	Apr. 13	20
National Lead Co. - polyethylene-encapsulated cellulose products plant startup	June 22	50	Atomics International Div. - alkali metal	Mar. 16	83	Titan II - anhydrous hydrazine fuel contract	Feb. 23	99
Polymerization-encapsulating process unveiled	June 29	43	Autonetics Division - ablative coatings	June 1	91	Total management system case study	Feb. 25	167
Preferred stock retirement plan Feb. 9-26 Mar. 16-26	June 22	26	Titanium welding technique	Feb. 16	75	Omega Chemical Co. - builds up surfactants line	Feb. 23	127
Titanium Alloy Manufacturing Div. - wage agreements	May 18	81	North American Car Co. - glass-fiber tank car debut	Apr. 13	73	Omni Products Corp. - new division of C. Tennant Sons	Feb. 9	26
National Petrochemical - linear polyethylene plant onstream in Texas	Jan. 19	62	North American Coal Corp. - shuts alum plant at Powhatan Point, O.	Apr. 13	25	O'Neill Geothermal Co. - American Metal Climax may acquire chemical recovery rights for geothermal wells	June 1	92
National Plastics Products Co. - polypropylene fibers plant to be built at Oradell, Md.	Mar. 16	26	Suspends alumina production at Powhatan Point, O.	May 4	64	Imperial Valley geothermal well contains large quantities of minerals	Mar. 16	63
National Polychemicals, Inc. - flexible phenolics called Tetraflex	Feb. 9	68	North Star Research and Development Institute - new nonprofit research organization	Feb. 23	100	Ontario Hydro - considers four 405-megawatt reactors	Mar. 30	60
Resorcinol-phenol resins curing system	Apr. 27	55	Northern Chemical Industries - Chemtron acquires 50% interest	Jan. 12	25	Ontario Paper - denies undercutting U.S. vanillin prices	Feb. 27	60
National Potash - Carlsbad, N.M. potash deposit development plans	Jan. 19	20	Northern Helex Co. - helium conservation program - firm refuses to modify contract terms	Feb. 23	21	Ontario Research Foundation - research community under construction	Feb. 2	53
National Research Corp. - acquired by Norton Co. Feb. 9-26	June 22	26	North America - synthetic beeswax	Feb. 16	21	Ultrasonics research agreement with Macrosonics	Feb. 23	114
National Research Council of Canada - coprecipitation of lignin with rubber butadiene polymer	Mar. 2	58	Northwest Natural Gas Co. - wage agreement	May 11	48	Onyx Chemical - cationic detergent to be used against detergent foam	May 25	113
National Rivet and Manufacturing Co. - self-sealing rivet marketing agreement	June 15	80	Northwest Petrochemical Corp. - acquired by Forest Fiber Products Co.	June 29	34	Millmaster Chemical may buy Onyx	Jan. 26	18
National Rolling Mills Co. - fluorocarbon venture delayed	Jan. 5	60	Norton Co. - acquisition of National Research Corp. proposed	Feb. 2	26	Ora-Dent Corp. - foaming tooth-cleaning tablets debut	June 8	65
National Silicates - sodium metasilicate project at Toronto, Ont.	June 22	61	Lists stock on New York Stock Exchange; acquires National Research Corp.	Feb. 9	26	Owens-Illinois Glass - antitrust suit settlement requires divestiture of six plants	June 22	25
National Starch and Chemical Corp. - adhesives plant and a warehouse for resins and starches being built in the Armour-Ottley industrial area of Atlanta, Ga.	Apr. 20	26	Nova America - Vulcan Material Plastico interest sold to Grace	June 22	26	Glass developments: glass colors when exposed to electron beams; glass ceramic materials; glass resins; hot-glass rights for electrostatic printing process	June 1	91
Amylase starch called Amylon VII	May 11	47	Novadel Ltd. - naphtenic-type paint drier price cuts	Feb. 2	46	Tall oil fractionating process will get commercial test at Valdosta, Ga., plant	Jan. 5	51
Sandable wood adhesive	Mar. 23	36	Novament - polypropylene film and fiber plants postponed indefinitely	Apr. 13	25			
Self-cross-linking acrylic copolymers	Mar. 2	42	Nuclear-Chicago Corp. - density gauge	Apr. 23	93			
Vinyl acetate plant start up at Long Mott, Tex.	Mar. 9	71	Nuclear Engineering - Kentucky radioactive waste burial ground - lease agreement	Jan. 19	19	Pacific Lighting Corp. - forms subsidiary to make gas-fired central heating and air-conditioning units for industrial plants	Feb. 23	154
Vinyl acrylic solution resin	Apr. 6	101	Nuclear Fuel Services - AEC okay nuclear fuel reprocessing plant	May 4	17			
Vinyl packaging adhesives plant being built at Atlanta, Ga.	Mar. 23	26	Atomic wastes reprocessing project moves ahead	Mar. 16	20	Packing Engineering Corp. - affiliates with Seal-O, Inc.	Jan. 26	27
National Technology Corp. - vinyl-on plant deals with two Japanese firms	June 8	26	Construction under way on nuclear fuels reprocessing plant	June 1	23	Pall Corp. - gas detector	Feb. 9	49
Nationwide Consumer Testing Institute - new issue "Seal of Quality" on consumer products	Feb. 2	64	Ground-breaking ceremony at West Valley, N.Y.	June 22	24	Pan American Grace Airways Inc. - Grace will sell interest to Pan American	Apr. 27	17
Neerman Engineering and Machine Co. - turbidity analyzer	Apr. 6	102	Nuclear fuels reprocessing plant - ground breaking near	Apr. 13	23			
Neochem Products Co. - Hi-Dine swimming-pool disinfectant	Feb. 9	75	Nuclear fuels reprocessing plant is step near reality	Apr. 20	38	Pan American Sulphur - sales, earnings, production up in '62	Mar. 23	18
Nepera Chemical Co. - 3-aminopyridine process	Feb. 2	66	Planning for nuclear fuel reprocessing plant is on schedule	Jan. 19	27	Pan American World Airways - Grace will sell interest in Pan American-Grae Airways	Apr. 27	17
Netherlands State Mines - synthetic lysine plant to be built at Geleen	June 29	26	Nuclear Research Chemicals, Inc. - Carbon-14 radioactive gases	Apr. 27	55			
Neville Chemical Co. - color paving products	May 25	44	Carbon-14-tagged chemicals	Mar. 23	35			
New Jersey Zinc Co. - acquires interest in Catalysts and Chemicals	Mar. 16	26	Nucleon Science & Engineering Co. - Cobalt-58 available	Mar. 9	55			
Labor adjustment assistance application denied	Mar. 23	24	N.V. Bililon Maatschappij - organometallics venture in Zaandam, Netherlands with M&T Chemicals	Mar. 30	58			
Laid-off workers apply for federal unemployment benefits under Trade Expansion Act of '62	Feb. 16	40	Oak Ridge National Laboratory - promethium 147	May 18	67	Pacific Lighting Corp. - fair trade suit against Wilmington Vitamin Sales and earnings	Jan. 5	58
						Parker Bonderite (Aust) Pty Ltd - Hooker Chemical and Chemserve acquire firm	Jan. 27	24
						Parsons & Whittemore - Ethiopian pulp and paper mill project	June 22	37
						Patclim Chemical Co. - tin-plate stripper	Apr. 27	75
						Patent Chemicals - petroleum dyes	Mar. 23	36
						Pavelle Corp. - Xerox will evaluate color photographic printing process	Feb. 16	47
						Pechiney - Australia approves bauxite plans	June 1	32
						Australian aluminum project	Mar. 2	33
						Financial picture reported; chides U.S. for aluminum supply-demand imbalance	Apr. 13	59
						Penetone Co. - chemicals for spill cleanup	June 8	72
						Penick, S. B. & Co. - aerosol concentrate	May 4	69
						Pratin rodenticide licensing agreement with WARF	Jan. 5	42

Penn-Olin Chemical - antitrust case: facts vs. theory - Viewpoint	May 11	5	Pittsburgh Plate Glass Co. - accelerates growth in chemicals with Chatham-Reading acquisition, new potash venture	Feb. 23	44	Quimica Organica, S.A. - glycols and polyols venture with Wyandotte	Mar. 9	37
- letter	June 15	5	Acquires Chatham Reading Chemical Corp., assumes responsibility for Houston Chemical debt	Feb. 16	19	- letter	Mar. 30	10
Federal judge dismisses antitrust charges	May 11	21	Adhesive Products Division - neoprene adhesives	June 8	68	Radio Corp. of America - Electron Tube Division is working on 30,000-gauss magnets	June 22	56
Pennsalt Chemicals Corp. - calcium hypochlorite plant at Wyandotte, Mich. - expansion	Feb. 23	45	Ammonia expansion at Natrum, W. Va.	Jan. 19	19	Plastic laser developed	Mar. 16	64
Swimming-pool chemicals line expanded	Feb. 9	75	Carbon bisulfide plant to be built at Natrum, W. Va.	Jan. 5	18	Ramsey Controls, Inc. - motor speed-control unit	Apr. 13	91
Pennsylvania Industrial Chemical - alkylated hydrocarbon polymers	Apr. 27	71	Changes color of Soda Briquettes to white	Feb. 9	75	Ransing Research and Development - electrostatic paint for nonmetals	Jan. 5	36
Pennsylvania Refining Co. - laboratory bath oil	Feb. 23	94	Chemical Division - trichloroethylene and perchloroethylene project at Lake Charles, La.	June 8	20	Rayon Perman S.A. - caustic soda and chlorine products venture	Mar. 23	56
Pepsi-Cola Co. - will test market dietetic drinks	Feb. 16	57	Float glass will face market tests late this year	Mar. 16	25	Reeves Bros. - dyeable polypropylene	Mar. 23	77
Perfex Corp. - acquires Berlana Corp. from Consolidated Foundries	Feb. 23	45	One-coat paints and enamel	Mar. 23	36	Refrigerating & Power Specialties - refrigerant gas lawsuit	Apr. 13	42
Perkin-Elmer Corp. - atomic absorption spectrophotometer suitable for process control analysis	Mar. 9	70	Organic peroxide cross-linking agent, BPIC, for vulcanizing rubbers and plastics	Apr. 13	69	Refrigerative Supply - refrigerant gas lawsuit	Apr. 13	42
Petrobras - ammonia plant at Camacari, Bahia, will use Texaco and Amercia Calzado know-how	Jan. 26	53	Paint and Brush Division renamed Coatings and Resins Division	Mar. 2	26	Reichhold Chemicals - abandons plans for plastics plant near Portsmouth, England	Apr. 27	75
Petrochemicals expansion program	May 18	37	Polyester resin capacity boost; electrostatic coating system under development	May 25	55	Acquires Rosett Chemicals	Mar. 16	26
Synthetic rubber project	June 15	61	Pittsburgh Towing Co. - specializes in "fishyback" services	Jan. 26	94	Antislip stain and mold control	Apr. 27	55
Petrobras - polymer injection system	Jan. 5	53	Planichim - toluene diisocyanate project	Jan. 26	53	Branches out into phenolic molding compounds	June 8	24
Petrofina S.A. - negotiations for Grace's 52% interest in Cosden rumored	Feb. 2	17	Plas-Chem Corp. - exterior epoxy coating called Acro-Lor	Apr. 27	50	Floor polish resins	Jan. 5	36
Petrolane Gas Service Inc. - applies for listing on New York Stock Exchange	Feb. 16	25	Plas-Tech Equipment Corp. - symposium on high-speed testing	June 1	104	Plastics and polymer research lab at Sterling Forest, near Tuxedo, N.Y. - ground breaking	Feb. 9	64
Common stock offering planned to replenish capital used to buy LPG retailers	Jan. 12	23	Plastico Atanor - merges with Duranor	June 15	61	Snaps out of '61 slump, acquires Rosett Chemicals	Feb. 16	24
Petroleos Mexicanos (Pemex) - accepts French loan; builds two ammonia plants	May 18	37	Plasti-Kote - amber aerosol spray colors auto's glass turn-indicator signals	Jan. 26	85	Thermosetting resins for use in missile systems	Jan. 5	42
Capital spending plans for '63	Mar. 30	58	Polaroid Corp. - color film that processes in 50 seconds will debut in Florida	Feb. 9	41	Reichhold Chemicals (Canada) Ltd. - formaldehyde project at Ste. Therese, Que.	June 22	62
Polyethylene resins venture with ICI and Celulosa y Derivados	June 15	61	Polyvinyl Panel Corp. - polarized light costs	May 25	95	Reichhold Chemie AG - Britain imposes anti-dumping duty on phthalic anhydride imports	Feb. 9	37
Petroleum Chemicals, Inc. - Cities Service buys out Continental Oil's interest	June 8	19	Polyethylene Bag Mfg. Co. Ltd. - acquired by Union Carbide Canada	Mar. 23	23	Reinhold Engineering & Plastics Co. - acquires California Division of Garlock	June 1	31
Mid-South Chemical - Cities Service may dispose of interest	Apr. 6	17	Polymer Corp. Ltd. (Canada) - high-cis polybutadiene rubber marketing in Britain	June 22	31	Reliance Chemicals Corp. - microbial products plant and labs at Houston, Tex. - expansion	Mar. 2	48
Pfister Corp. - Bareco Wax Division - microcrystalline wax, Cryoflex	June 15	52	Zeroes in on U.S. rubber market	Feb. 2	46	Reliance Vanish Co. - coatings plant to be built in Salem, O.	Mar. 23	66
Pfaudler Permutit Corp. - packaged unit opens way to economic recovery of toxic plating compounds	Mar. 30	43	Polymer Corp. P.L. of Australia - nylon-6 venture with Allied dropped	May 25	95	Repesa - considers broader production of petrochemicals; dedicates urea plant	June 22	37
Pfister Chemical Works - transfers Pfister Southern subsidiary to Charlotte, N.C.	May 11	26	Polymer Industries - synthetic resin emulsions project at Greenville, S.C.	Mar. 12	43	Starts legal proceedings to stop Cepsa-Gulf refinery project at Bilbao	Feb. 16	26
Pfister Chas. & Co. - acquires Desitin Chemical	May 11	26	Textile finisher	June 15	61	Republic Steel Corp. - decision on oxygen lance deferral	Apr. 20	74
Brazilian Itacoril marketing deal with Koppers and LIRC	May 11	26	Polyrej - joint venture of ICI, Pemex, and Celulosa y Derivado, will make polyethylene resins at Reynosa	Jan. 5	25	Research Council of Alberta - combination pipeline-reactor envisioned	Apr. 27	59
Citric acid lawsuits: one settled, one pending	Apr. 13	27	Polythane Corp. - acquires Stretchables International, will produce spandex elastic fibers in Northern Ireland	June 22	74	Research Institute for Fermentation - ion exchange system makes glutamic acid wheat from wheat gluten	Mar. 2	57
Enzyme process for cheesemaking	Feb. 16	57	Polyvinyl Chemicals - styrene-acrylic copolymer	Feb. 23	130	Resin Research Laboratories - serves industry with polymer development and know-how	Mar. 16	23
Fumaric acid plant at Vigo, Ind., uses Scientific Design process	Jan. 5	46	Porter, H. K. - Patterson-Sargent Div. launches water-based linseed oil house paints	Mar. 2	18	Resources for the Future, Inc. - closeup - year 2000 - report	Apr. 6	86
Fumaric acid process bypasses maleic anhydride step	Feb. 16	57	Power Corp. of Canada - Canadian Cefanease stock plan	Jan. 30	49	For use of U.S. resources to year 2000	Apr. 6	26
Nonrigid urethane foam process licensed from Britain's Aerogenen	Jan. 12	23	Premier Petrochemical - new firm produces urea near Pasadena, Tex. Jan. 19-20, 27, Apr. 6	June 21	Natural resources forecast to year 2000	Mar. 30	60	
Trachoma vaccine	Feb. 9	37	Prestiss Drug and Chemical Co. - prolin rotenidine licensing agreement with E.R.S.	May 25	56	Revell Corp. - Glass Lewis, urges CPI to increase aid in fight on glue-sniffing	Apr. 13	77
Trimellitic acid ester series	Jan. 5	46	Pritchard, J. F. - adiabatic reforming process	Jan. 1	32	Rexall Drug & Chemical Co. - "misleading" container lawsuit	Mar. 9	17
Wine pasteurizer	Feb. 16	57	Process Chemicals Co. - Emery Industries acquires firm	Jan. 26	27	New Markets Division launches plastic mesh material, laminated film, and a plastic device for six-pack containers	May 25	102
Phefts Dodge - antitrust complaint involves acquisition of stock by Newmont Mining	May 11	60	Producers Cotton Oil Co. - cottonseed oil refinery to be built in Fresno	Mar. 30	70	Petrochemicals outlook rosier	May 18	21
Antitrust complaint - Newmont will fight suit	Feb. 16	58	Pro-Phy-Lac-Tic Brush Co. - acquired by Standard Oil of Ohio	Feb. 23	45	Polyethylene licensing agreement with Nippon Petrochemical	June 29	26
Philadelphia & Reading Corp. - interest in Chatham Reading Chemical sold to Pittsburgh Plate Glass	Feb. 16	19	Proprietary Perfumes, Ltd. - moves from captive to open-market sales	Feb. 16	25	Polyethylene resins for extrusion coatings	Feb. 23	94
Philadelphia Gas Works - underground storage of natural gas planned	May 11	60	Prosperity House - sells franchise for door-to-door delivery of household cleaning agents	May 25	99	Regional sales managers head profit centers, win bigger voice in corporate policy	Mar. 2	73
Philip Morris - Philip Morris - codefendant in drug sales kickback case	Mar. 16	36	Prosul - nitrophenoxide fertilizer project in Rio Grande do Sul state	Feb. 16	45	Reynersholms, Gamla Industri AB - Boldens Grubav acquires majority stock	Feb. 9	37
Phillips Chemical Co. - controlled-structure styrene-butadiene rubber, Solprene X-40	Apr. 6	69	Protex Chemical Co. - Southland Chemical acquires common stock	June 15	61	Reynolds Metals Co. - all-aluminum beer cans market potential	Apr. 27	72
Freeze concentration technique	June 1	97	Psychological Services, Inc. - screening 200 newly hired salesmen	May 4	24	Australian bauxite deposits lease withdrawn	June 1	32
High-density polyethylene resin	Feb. 9	49	Publicker Industries - seeks restoration of duty on Canadian whiskies	Apr. 20	29	Oregon commands air quality control program	Apr. 27	38
Petrochemical growth pattern	Jan. 25	24	Puerto Rico Chemical - fumaric acid project likely	Mar. 9	28	Reynolds, R. J. Tobacco Co. - Landscape and Nitro-glade fertilizers test marketing	Jan. 19	35
Provides feedstock and markets urea for Premier Petrochemical	Jan. 19-20	27	Phthalic anhydride project	May 18	72	Rheem Manufacturing Co. - polyethylene-lined drum launched	Apr. 6	90
Phillips Pacific Chemical Co. - urea plant to be built in Northwest	June 29	25	Puget Sound Pulp & Timber Co. - merging with Georgia-Pacific Corp.	Apr. 27	26	Rhodes, James H., & Co. - nylon cleansing pads	June 8	68
Phillips Petroleum Co. - acquires 8% interest in Purex Corp.	Jan. 5	24	Pure Oil Co. - cyclohexane plant to be built at Smith Bluff, Tex.	Apr. 27	26	Rhone-Poulenc S.A. - sales and earnings	Apr. 20	54
Algerian butadiene project dropped	Mar. 30	58	Forms Amoco International to handle overseas marketing	Jan. 12	18	Richardson Co. - amide series	Feb. 23	93
Butadiene plant to be built in France	Jan. 26	24	Purex Corp. - acquires Milenco Co. Land and building sale-leaseback at Bristol, Pa.	June 1	31	Polystyrene project at Stamford, Conn. - engineering completed	Jan. 5	25
De-icer is also potent fungicide in jet fuel lines	Feb. 9	67	Phillips Petroleum acquires 8% interest in Puritan Aerosol Corp. - filling plant opened in Berkeley, R.I.	May 11	26	Richardson-Merrell, Inc. - Extruded Plastics merges into company, becomes Tulox Plastics Division	Jan. 5	25
Helium conservation program - firm refuses to modify contract	Jan. 5	24	Pyrofan Gas Corp. - Carbone may sell LPG operation to Texas Eastern Transmission	Apr. 20	23	Hess & Clark Div. - feed additive, Nidur	Mar. 23	36
Mobilized computer control system to be used at Bartlesville, Okla.	Feb. 16	21	Protel Corp. - infrared detector	Mar. 23	66	William S. Merrill Co. - a division, adds laboratory and office space to Cincinnati facilities	June 29	44
Petrochemical growth pattern	Jan. 26	24	Quimica del Rey S.A. - salt cake and sodium sulfate plant to be built at Laguna del Rey, Coahuila	Jan. 5	18	Merrell, Wm. S. Co. - halidomide hearings	Apr. 27	40
Spain approves petrochemicals venture with Calvo Sotelo	Feb. 2	46	Quimica del Rey S.A. - salt cake and sodium sulfate plant to be built at Laguna del Rey, Coahuila	May 11	47	Vick, Chemical Div. - new plant to be built in Hatboro, Pa.	Mar. 2	26
Uranium mining and milling properties sold to United Nuclear	Mar. 16	42	Quimica Organica, S.A. - glycols and polyols venture with Wyandotte	Apr. 27	17	Richter, Gedeon, Pharmaceutical Products - vitamin B12 patent suit	Feb. 9	24
Phillips Petroleum International - carbon black process licensed to Companhia de Carbonos Coloidais (Brazil)	Mar. 2	33	Quimica del Rey S.A. - salt cake and sodium sulfate plant to be built at Laguna del Rey, Coahuila	Apr. 27	17	Risdon Manufacturing Co. - water-base aerosol valve	June 8	68
Pigment-Chemie GmbH. - titanium oxide pigments produced at Homberg am Niederrhein	May 11	60	Quimica Organica, S.A. - glycols and polyols venture with Wyandotte	Apr. 27	17	Robins, A. H., Co. - goes public via secondary stock offering	Mar. 16	26
Pilkington Brothers, Ltd. - float glass process licensed to Libbey-Owens Ford	May 9	77	Radio Corp. of America - Electron Tube Division is working on 30,000-gauss magnets	June 22	56	Rockwell Manufacturing Co. - consolidates R&D activities in Pittsburgh	June 29	44
Pillsbury - Tidy House Division strengthened	Mar. 2	33	Plastic laser developed	Mar. 16	64	Rocky Mountain Arsenal - increases use of GB gas/gas weapons contracts up in '62	Feb. 9	26
Pintsch Bamag - granted rights to install Olin's E-11 mercury cell process for making chlorine and caustic soda in all countries except U.S. and Canada	Mar. 9	37	Ramsey Controls, Inc. - motor speed-control unit	Apr. 13	91	Rocky Mountain Pharmaceutical Co. - air pollution charges close Butte, Mont. plant	June 15	40
Pioneer Salt - swimming-pool chemicals: Chlor-Lok and Quik-Clor	Feb. 9	75	Ransing Research and Development - electrostatic paint for nonmetals	Jan. 5	36	Rocky Mountain Research, Inc. - phosphine production unit reactivated	Mar. 16	83
Pittsburgh Chemical - U.S. Steel acquires 25% interest	Apr. 20	23	Rayon Perman S.A. - caustic soda and chlorine products venture	Mar. 23	56			
Pittsburgh Coming Corp. - Unibestos pipe insulation plant to be built at Port Allegheny, Pa.	May 4	24	Reeves Bros. - dyeable polypropylene	Mar. 23	77			

Rogers Corp. — molding compound, RX-610	Mar.	16	83	Shawinigan Chemicals — British American Oil may acquire complete control; Premier Lesage's stock proposal	Jan.	12	18	Smith Kline & French Laboratories — annual meeting	May	25	53		
Rohm & Haas Co. — aqueous polymer dispersion	May	25	44	British American Oil takes over majority interest, upsets Province of Quebec's offer of independence	Jan.	19	25	Dermathera, a medicated lotion	Apr.	27	52		
Branches out in pharmaceuticals, synthetic fibers	May	25	53	Interest in Shawinigan Resins sold to Monsanto	Apr.	13	19	Research expenditures; revives microbiological specimens from tomb in Guatemala	Apr.	6	69		
Capital spending boost; expansions	Mar.	30	25	Shawinigan Industries Ltd. — set up to assume Shawinigan Water & Power's nonutility assets	Apr.	13	19	Secondary stock offering planned	Feb.	2	24		
Coagulant aids for clarifying turbid water	Jan.	26	92	Shawinigan Resins — Monsanto acquires complete control	Apr.	13	19	Social Research, Inc. — studies effectiveness of safety leaflets, posters and films	Apr.	6	85		
Difunctional acrylic monomer, BDMA	Feb.	2	42	Monsanto to become sole owner	Mar.	2	17	Società Tirrena Petroli — refinery planned for Portovesme, Sardinia	Apr.	27	75		
Flame-resistant acrylic-modified polyester	Mar.	9	62	Polyvinyl alcohol resins	June	22	74	Société des Monomères de Synthèse — Phillips pulls out of butadiene project	Jan.	5	24		
Price cuts on acrylic products and methyl methacrylate monomer	June	29	57	Vinyl copolymer latex	Apr.	6	102	Société des Produits Azotes — partner in phosphoric acid and fertilizer project near Bayonne	May	25	34		
Rheo Industries division will launch spandex urethane elastic fibers	Apr.	27	72	Shawinigan Water & Power — British American Oil may acquire complete control of Shawinigan Chemicals; Premier Lesage's stock proposal plan	Jan.	12	18	Société Française des Pétroles BP — hydrocarbon fermentation research	Feb.	2	49		
Textile binder	Feb.	23	44	Directors will accept government offer for shares	Mar.	30	18	Petroleum paraffins, key to edible yeasts process	Jan.	5	53		
Rolls-Royce — fiber reinforcement of metals studied	June	29	47	Interest in Shawinigan Chemicals will be acquired by British-American Oil and Shawinigan Industries	Apr.	13	19	Société Générale de Belgique — Belgium toluene dicarbonate project with Royal Dutch/Shell	Jan.	26	53		
Rosett Chemicals, Inc. — acquired by Reichhold	Feb.	16-24	26	Goldsミ斯' majority interest in Shawinigan Chemicals to British-American Oil	Jan.	19	25	Société Générale Métallurgique de Hoboken — refineries, metal ventures with Finsmeel	Jan.	5	25		
Roswell Park Memorial Institute — cancer research and treatment center opened	Mar.	2	48	Shell Chemical Co. — Adhesives Dept. — epoxy adhesive	May	18	68	Société Métallurgique de Prayon — leaching and filtration systems licensed to Bradley Pulverizer	June	22	37		
Rotterdamse Polyolefinen Maatschappij N.V. — joint venture of Royal Dutch/Shell and Montecatini, will produce polypropylene at Pemis	Feb.	9	37	Dutch gas pipelines venture with Esso	June	8	26	Société Nationale des Petroles d'Aquitaine — liquid sulfur production planned	June	1	32		
Rovoro, S. p. A. — British Oxygen acquires interest in firm	Mar.	30	58	High-cis polybutadiene rubber marketing in Britain	Mar.	23	23	Partner in phosphoric acid and fertilizer project near Bayonne	May	25	34		
Roy, Milton, Co. — metering pump	Apr.	27	56	Normal butyl alcohol and isobutyl alcohol project at Houston, Tex.	June	8	20	Strike at Lacq complex	Mar.	23	56		
Royal Dutch/Shell — Belgium toluene diisocyanate project with Societe Generale de Belgique	Jan.	26	53	Normal butyl and isobutyl alcohol expansion continues despite strike at Houston, Tex.	June	15	98	Société Norsyntex — new company will produce nylon filament yarn and staple	Mar.	2	33		
Dutch polypropylene venture with Montecatini	Feb.	9	37	Organo boron chemistry agreement with Purdie's Herbert Brown	May	18	64	Soc. Progile — joins UGP's petrochemical project	Jan.	12	57		
Joins in Spanish petrochemical project	Apr.	27	18	Resin used in dyeable polypropylene	Mar.	23	77	Société Rhodiante — expands nylon-6/6 filament and staple capacity and polyester filament and staple capacity	Feb.	23	57		
Petroleum workers union considers worldwide action against firm	May	25	178	Water-lubricated centrifugal compressor developed with Elliott Co.	Jan.	12	64	Nylon venture	Mar.	2	33		
Royce Instruments Inc. — Recording camera	June	1	107	Shell Development Co., animal health laboratory at Modesto, Calif.	June	1	128	Société Rhôvoil S.A. — polyvinyl chloride filament and staple expansion	Feb.	23	57		
F.C. Richter, Milano Co. — joint fertilizer venture at Marseilles, Ill.	Mar.	2	62	Shell International Chemicals — Indian naphtha cracker project awaits government approval	Jan.	5	24	Soc. Ugine — joins UGP's petrochemical project	Jan.	12	57		
SGI testing laboratory being built at Montgomery, Ala.	June	29	44	Shell Italiana — pesticides venture with Montecatini	Mar.	16	42	Socioni Mobil Oil Co. — chemical expansions stressed at annual meeting	June	1	29		
Rozilda Laboratories — glutaraldehyde bis-sodium bisulfite, a gelatin-hardening agent	Feb.	9	49	Shell Oil Co. — Cuban refinery down to 50% of capacity	Feb.	9	27	Debenbare offering proposed	Feb.	2-26	May	25	53
Phosphated ester surfactants	Apr.	20	84	Interior Dept. weighs oil shale bid	Apr.	13	69	Mobil Chemical Co. adds to its plastics organization	Mar.	23	26		
S. D. Plants Ltd. — contractor for W. J. Bush's benzoic acid plant	June	15	61	OCAW will accept 5% wage increase	Jan.	12	83	Mobil Chemical Co. takes over polyethylene plant that was shut down by Foster Grant Polyolefins	Mar.	30	25		
Sachtleben AG — titanium oxide pigments venture with DuPont	Mar.	2	33	Polyethylene packaged motor oil test marketed in Baltimore area	Apr.	6	90	Smith-Douglas acquisition rumors	June	8	20		
St. Croix Paper Co. — Georgia-Pacific Corp. moves to acquire outstanding stock	Jan.	12	25	Roxana, Ill. strike settled	Feb.	23	160	Sodium Chemicals — Lever Bros. South Africa acquires controlling interest in parent company	Mar.	9	37		
Saint-Gobain — financial picture good, U.S. affiliate shows loss	May	25	86	Sherritt Gordon Mines Ltd. — cobalt powder available	Jan.	26	27	Sohih Chemical — acrylonitrile capacity boosts may be on way	Apr.	27	72		
Float-glass plant to be built in Italy	May	18	64	Monsanto obtains worldwide licensing rights to metallurgical leach process	Mar.	2	41	Soriano, A. & Co. — kraft paper and newsprint project with International Pulp and Paper	Feb.	23	57		
San Jacinto Petroleum Corp. — acquires Hudson Gas & Oil Corp. with Dorchester Gas Producing Co.	Jan.	12	23	Sherwin-Williams — acrylid, new quick drying paint for automotive trade	May	4	55	South Hamton Co. — molecular sieve process in development	Feb.	23	57		
Sandvikens — Angermanland sulfite plant sold to Norrlands Stogsägares Celulosa	May	11	28	Shin Nippon Chisso Chemical — polypropylene fiber venture with Avlon	Jan.	26	70	Southern Clays, Inc. — acquired by Freeport Sulphur	Jan.	26	37		
Santoku Chemical Industries Co. — hydrogen peroxide process licensing negotiations with Laopore Industries	June	29	26	Strike over Marathon Bemberg plant	Apr.	20	54	Southern Natural Gas Co. — financial agreement with The Oil Shale Corp.	June	15	17		
Saran Lined Pipe Co. — markets polypropylene-lined pipe	Jan.	19	32	Shipley Co. — metal-cleaning solution	Feb.	9	37	Southern Nitrogen — merger negotiations with undisclosed company	June	15	26		
Sargent Paint Mfg. Co. — automotive aerosol paint line introduced	Jan.	26	85	Shorko-Metal Box Ltd. — established to consolidate plastic film business of Metal Box Co. with Shorko Packaging	Jan.	26	92	Taylor, George, favors fertilizer swapping	Apr.	13	20		
Saukout Silk Co. — acquired by Rohm & Haas	May	25	53	Shorko Packaging (U.K.) Ltd. — consolidates with plastic film business of Metal Box Co.	June	22	37	Southern Research Institute — builds laboratory and office building at Birmingham, Ala.; plans new health laboratory	Apr.	20	42		
Schenck Co. — programmed instruction used to develop sales skills	Jan.	5	26	Showa Denko — mineral export cartel	Mar.	16	20	Southernland Chemical Co. — acquires common stock of Protex Chemical	May	4	24		
Schulte and Koering Co. — rotameter transmitter	May	25	43	Showa Denko — MITI approves polycatel resins venture with DuPont	May	11	28	Southwest Research Institute — spill cleanup chemicals	June	8	76		
Schwarzkopf Development Corp. — carbide parts made from "850" grade carbide, for use in ultrahigh-pressure applications	Jan.	5	36	Shuk-Lok Bonded Structures Ltd. — U.S. and Canadian distributor for Redux and Hidux adhesives	Jan.	26	53	Turbine engine problems reported	June	1	91		
Scientific Design — catalyst for ethylene oxide production	June	15	79	Sicideson — Monsanto's 40% interest will be acquired by Societe Edison	June	8	66	Southwestern Capital Corp. — Bon Ami merger plans abandoned	June	29	24		
Fumaric acid process bypasses maleic anhydride step	Feb.	2	44	SICMA Vending Supply Co. — Foam-ette tooth cleaning tablet vending machines	Mar.	9	37	Sovereign Steel of Texas Inc. — steel mill slated for Maydelle, Tex.	Mar.	2	24		
Fumaric acid process details emerge through patent literature	Jan.	5	46	Signal Oil and Gas Co. — gasoline absorption plant being built at Ingleside, Calif.	June	8	65	Spac Valve Corp. — compressor valve	Apr.	20	42		
Toluene oxidation process will be used at W. J. Bush's benzoic acid plant	June	15	61	Sulfur will operate plant	Jan.	19	27	Jan. 26-91, Compressor valve specialists seek U.S. sales	May	4	24		
Scott Paper Co. — Dunning, Harrison, discusses plant modernization	Feb.	16	22	Sulfur recovery unit to be built at Houston, Tex.	June	1	31	Spence & Green Chemical Co. — tall oil fractionating process requires comparatively low investment	June	8	76		
Scottish Agricultural Industries, Ltd. — potassium metaphosphate fertilizer process	Feb.	2	45	Signode Steel Strapping Co. — nylon strapping system for shipment of pallet loads	Jan.	5	35	Spencer Chemical — polyethylene emulsion marketing agreement with Germany's Metallgesellschaft	Jan.	15	98		
Sea-Land Services, Inc. — specializes in "fishy-back" services	Jan.	26	94	Sikkens Condor AB — new name of Condorverken AB	Apr.	6	51	Progress report on making low ash coal by solvent techniques	Apr.	13	69		
Seafol, Inc. — affiliates with Chemical & Power Products and Packing Engineering Corp.	Jan.	26	27	Sikkens Groep NV. — acquires Condorverken Silicate and Chemical Industry — Lever Bros. South Africa acquires controlling interest	Apr.	6	51	Spraying Systems Co. — spray nozzles	Jan.	5	35		
Seatrail Lines, Inc. — specializes in "fishy-back" services	Jan.	26	94	Simon-Carves, Ltd. — bids for Russian polyethylene plant	Feb.	23	36	Staatsmijnen — British firm acquires distribution rights for low-density polyethylene Stanlyan	Apr.	20	54		
Seaway Steel Co. — Niagara Falls, N.Y., plant relocation charges denied	Feb.	23	163	Will build four polyethylene plants for the Soviet Union	May	11	28	Staley, A. E., Mfg. Co. — common stock listed on New York Stock Exchange	June	8	25		
Seibeling Rubber Co. — Plastics Div. expands plant in Newcomerstown, O.	May	18	23	Simpson, R. R. Co. — Leonard-Monsanto sulfuric acid plant is first step in fertilizer extension program	Apr.	6	51	Thermosetting monomers line debuts	Jan.	5	42		
Sekisui Chemical Co. Ltd. — polystyrene foam plant to be built at Hazleton, Pa.	Mar.	16	20	Phosphate expansion	Apr.	6	27	Standard Chemical Products — Avirol and Standardol series of SCP surfactants	Apr.	13	91		
Polystyrene project in U.S. — complete details due soon	Jan.	19	62	Feb. 16-25, Sinclair Oil Co. — expansion and modernization of Sinclair, Wyo., refinery planned	Feb.	16	25	Standard Insulation Co. — acquired by Armour Allis Industries	June	1	31		
U.S. polystyrene foam project okayed by Japanese government	Apr.	13	80	Sindri Fertilizer Factory — Sulfuric acid project	June	8	26	Standard Magnesium Co. — Bonneville stockholders takes further legal measures to block sale	Feb.	23	36		
Selas Corp. — direct-radiant-heating method for drying paint	June	8	48	Skelly Oil Co. — acquires tract on Mississippi River near Romeville, La.	Mar.	23	26	Bonneville stockholders clash over proposed sale	Jan.	12	22		
Senko Kemiak A/S — Nopco product-manufacturing facilities taken over by Nopco Chemical	Feb.	9	37	Smith, A. O., Corp. — high-pressure equipment line dropped	Feb.	2	24	Bonneville stockholders vote to accept Standard offer	Feb.	16	19		
Separation Processes Corp. — pumping baffle market	June	1	102	Smith, Alexander — polypropylene capet maker	Feb.	16	57	Proposes changing name to Standard Magnesium & Chemical and state of incorporation from New York to Delaware	Apr.	27	26		
Service Bureau Corp. — computer service, GIFS, for computerless engineers	Mar.	16	59	Smith-Douglas Class — acquisition rumors: Kerr-McGee denies offer, Soconi and Humble also mentioned	June	8	19	Standard Oil of British Columbia — opposes hike in antiknock additive tariffs	Jan.	5	60		
Set Screw & Mfg. Co. — tubing set screw	May	25	43	Joint fertilizer venture at Marseilles, Ill.	Mar.	2	62	Standard Oil of California — OCAW will accept 5% wage increase	Jan.	12	83		
Sharp Laboratories — acquisition by Beckman Instruments	June	8	48	Kerr-McGee merger	June	15	22	Will operate gasoline absorption plant at Inglewood, Calif.	Jan.	19	27		

Standard Oil Co. (Indiana) - ethylene-propylene project at Morris, Ill., shelved indefinitely	Mar. 30	59	Syntax Laboratories, Inc. - breaks ground for research building in Stanford Industrial Park, Palo Alto, Calif.	Feb. 9	64	Tidewater Associated Oil Co. - OCAW will accept 5% wage increase	Jan. 12	83
Steam analyzer	Feb. 9	49	Szabo Food Service - stock fraud case - decision	Feb. 9	24	Ox-alcohol plant onstream at Delaware City, Del.	Apr. 13	80
Swearingen, John, outlines chemical development plans	Apr. 6	23				Tokuyama Petrochemical - petrochemical plans	May 18	37
Standard Oil of Kentucky - lime slurry damages Riverdale storage terminal	Mar. 9	22				Tokuyama Soda - ethylene dichloride project	May 18	37
Standard Oil Co. (New Jersey) - capital expenditures plans cut	Jan. 5	25				Toms River Chemical Corp. - multimillion-dollar expansion planned	Jan. 12	25
Chemical expansion stressed at annual meeting	June 1	29	Talsol Corp. - moves into new plant; consolidates two former divisions, Cincinnati Aerosol Co. and H. Talbot Co.	June 8	66	Toni Co. - markets low-cost New White Rain Hair Spray	Feb. 2	64
Drives deeper into chemicals, creates Esso Chemical Co.	May 11	22	Taylor Corp. - strike over	May 25	178	Toyo Engineering - urea and ammonia plants to be built in India.	Apr. 27	75
Establishes Esso Chemical Co.	May 4	18	Taylor, W. A., and Co. - drop test kits	June 15	52	Toyo Soda - ethylene dichloride project	May 18	37
French research laboratory established by affiliates	Jan. 5	44	Technical Tape of Delaware - acquisition by Detroit Industrial Products	June 1	29	Trans-Continental Electronic Corp. - induction heating - first standard system	Apr. 27	63
Standard Oil Co. of Ohio - acquires Pro-Phy-Lac-Tic Brush Co. from Warner-Lambert Copolymers of acrylonitrile and alpha-olefins	Feb. 16	25	Techni-Rite Electronics, Inc. - system manager	Jan. 26	91	Transcontinental Gas Pipe Line Corp. - natural gas storage cavern proposed for Hackensack, N.J.	Mar. 2	55
Gasoline from coal process	June 29	47	Teijii Ltd. - Japan approves dimethyl terephthalate venture with Hercules Feb. 16-19.	Feb. 23	57	Tropel Chemical Co. - amide series	Feb. 23	93
Looks for chemical acquisitions	Apr. 13	69	Teknika Inc. - finds new process uses for sonic generators	Jan. 19	31	Tri-City Industrial Services Inc. - Tri-City Equipment Co. - waste removal system	May 4	70
Wants 400 lbs. of depleted uranium to use as a catalyst in a fluid-bed pilot operation	Apr. 27	25	Tennant C. Sons & Co. - acquires Omni Products Corp.	Feb. 9	26	Trigold Oil - acquired by American Metal Climax	Jan. 26	18
Standard Pressed Steel Co. - Hallowell, H. T., discusses plant modernization	Feb. 23	99	Egyptian petrochemical project	May 25	95	Tri-Kris Co., Inc. - soft-seat valve	Jan. 12	43
Stanford Research Institute - pressureless printing process	Mar. 23	78	Tenneco Chemical - acetylene and vinyl chloride plant due onstream early '63	Feb. 2	57	Trojan Powder Co. - explosion and fire destroy Allentown, Pa., unit; San Leandro, Calif., plant shut down	Apr. 20	26
Stanton and Staveley, Ltd. - coil injection system	Jan. 5	53	Ammonia plant under construction at Houston, Tex.	June 29	58	Troy Chemical Co. - liquid microbicide	June 29	39
Starlene - polyethylene plant to be built near Cagliari, Sardinia	June 29	18	Completing acetylene and vinyl chloride plant on Houston Ship Channel	Apr. 20	26	Trubet Laboratories - becomes division of UOP	Feb. 2	26
Stauffer Chemical Co. - American Viscose-FMC merger - opposition affidavit by Hans Stauffer	Jan. 5	17	Polyvinyl chloride project on Houston Ship Channel	June 15	97	Tube Tums Plastics Inc. - needle valves	Jan. 5	35
Anderson Chemical Div. expands plant at Weston, Mich., to produce vanadium compounds	April 27	26	Tennessee Corp. - acquisition by Cities Service, Mar. 2-23; Mar. 30-17, Apr. 6-17; May 4-23, June 8-19, June 15-22.	June 22	17	Tuloma Gas Products Co. - will market ammonia for Amoco	June 29	57
Carboxy tetrachloride and perchloroethylene plant to be built at Dominguez, Calif.	Mar. 30	17	Tennessee Eastman - plastic sheeting division will market products made at Kingsport, Tenn.	June 15	98	Turtle Wax, Inc. - Main-to-Man Products division restyles new products, tests women's toiletries product	June 8	66
Carbon tetrachloride plant to be built at Le Moyne, Ala.	Mar. 23	18	Tennessee Gas Transmission Co. - acquisition of Heyden Newport proposed; debenture offering planned to help finance corporate activities	June 8	20	Twin City Testing Corp. - thickness tester	June 15	51
Electron beam equipment venture with Heraeus	Apr. 13	26	Debentures sold to underwriters; Heyden will acquire acquisition tentatively approved	June 29	25	Tyc Laboratories Inc. - thermal, electrochemical and solar energy conversion research staff expanded	Mar. 9	87
Microbial insecticide in liquid form	May 25	43	Joint fertilizer venture at Marseilles, Ill.	Mar. 2	62	Tysman Machine Co. - Carbonundum subsidiary takes over assets and business of Ty-Sa-Man Machine Co.	Jan. 26	27
Soda ash-from-trona patent battle looms	May 11-20,		Stock offering proposed	Apr. 20	26			
Strike at Seales Lake, Calif., has little effect on production	Mar. 23	102	Tennessee Products & Chemical Corp. - developmental quantities of four methyl benzophenones and a lower cost isomer mixture	June 8	20			
Tennessee land deal with Du Pont approved by SEC	May 27		Termitol Co. - acquired by Diversey Corp.	June 2	17			
Withdraws from project to upgrade Western coals to coke	June 26		Tesc Chemicals, Inc. - chlorine safety campaign launched, emergency kits offered	Feb. 16	25			
Stauffer-Heraeus - new firm will market electron beam fumaces and equipment	Jan. 26		Tetrafluor Inc. - merges with Mitchell Rubber Products to form Amerco Inc.	Jan. 5	73			
Stein, Hall & Co. - common stock split proposed	Apr. 13		Texaco Experiment Inc. - boron fiber developed	Mar. 23	26			
Tries manufacturing role in profit-building diversification move	Feb. 23		Texaco Inc. - ammonia know-how provided for Brazilian project	Mar. 16	63			
Will promote licensing of Liggett & Myers' tobacco process in foreign markets	Apr. 20		Cuban refinery down to 60% of capacity	Jan. 26	53			
Sten-C-Lab, Inc. - fast-drying marking ink	May 18		Petrochemical Dept. - oil additive	Feb. 9	27			
Stepan Chemical - Dutch elm disease cure required	May 22		Texaco City Refining - phenol-from-cumene plant at Texas City, Tex. gets go ahead.	Jan. 19	65			
Sales up but phthalic plant startup expenses drop earnings	May 25		Phenol plants shelved	Feb. 2	57			
Sterling Drug Co. - Bayer Aspirin ad ruling	May 30		Texas Eastern Transmission Corp. - acquires Carbide's LPG business	Jan. 12	23			
Bayer Aspirin ad ruling by federal court of appeals	June 17		Texas Gas Corp. - assets and certain related facilities of Winnie, Tex., plant acquired by Allied's Union Texas division	Jan. 19	27			
Bayer Aspirer trademark suit decision	May 28		Texas Gas Transmission Co. - plans addition to pipeline and related facilities.	Feb. 16	19			
Common stock split proposed	Feb. 16		Texas Gulf Sulphur Co. - Congress introduces bill to offset loss of Texas Gulf Queen Mexican vessels will be used to ship molten sulfur	Mar. 16	27			
Stock split, new certificates will be sent to shareholders	May 25		Moves into new quarters	Mar. 30	28			
Stokes, F. J., Corp. - vacuum gauge	June 15		Tanker Marine Sulphur Queen loss shakes sulfur trade	May 4	24			
Stoney Bros. - oil-resistant polyvinyl chloride sheet	May 18		Tanker Marine Sulphur Queen lost at sea	Feb. 23	89			
Strategic Materials Corp. - Koppers takes over management of firm	May 20		Texaco Instruments - new process makes high-purity silicon called Lox	June 8	47			
Stockholders will vote on refinancing proposal that would make Koppers Co. responsible for managing concern	June 1		Texize Chemicals - Care, a chlorine-free liquid bleach	Apr. 6	102			
Stretchable International - acquired by Polytane Corp.	May 5	25	Textron Inc. - bows out of textiles, sells Aerotron Division to Deering Milliken	Apr. 27	26			
Stroub Products Co. - moves to Lakewood, N.J.	May 11	26	Dorrance Laboratories Division sold to Maradei	Apr. 20	26			
Struthers Scientific International Corp. - freeze concentration technique	June 1	97	Spencer Kellogg Div. - urethane resins	May 11	48			
New firm puts premium on flexibility	Feb. 23	135	Thatcher Glass Mfg. Co. - merger with Diamond National proposed	Apr. 6	27			
Revises policies on engineering fees for crystallization processing and equipment	Mar. 9	62	Thermal Dynamics - antitrust charges filed against Carbide over plasma-arc torch business	Jan. 19	20			
Wet phosphoric acid process features crystallizer technique	Feb. 23	35	Thermal Supply Co. - refrigerant gas lawsuit	Apr. 13	42			
Struthers Wells Corp. - operations show loss for '62	June 1	98	Thermopal N. V. - acquired by Dutch-German joint company set up by Hamer Holding and Farbwere Hoechst	Mar. 23	56			
Sui Northern Gas Pipelines, Ltd. - new company will extend network of natural gas pipelines to northern regions of Pakistan	Feb. 23	156	Thiokol Chemical Corp. - bids for share of solid-fuel booster contracts, builds \$10-million propellant plant in Camden County, Ga.	Jan. 19	24			
Sulfex - British sulfuric acid producers defend cooperative buying pool	June 8	26	Expands space booster plant in Camden County, Ga.	June 1	128			
Sulphur Export Corp. - plans transatlantic shipments of liquid sulfur to Europe	May 18	37	Panelyte Industrial Division - glass polyester molding compound	June 1	108			
Sumitomo Chemical - aluminum export cartel	Mar. 2	75	Readying statement concerning woodbine, Ga. site	Jan. 5	17			
Sun Oil Co. - Dunlop, Robert, predicts Avisus will be in black by early '64	Mar. 16	20	Solid-fueled booster demonstration contracts	Apr. 27	30			
Lane, John M., opposes plan to use foreign-flag ships in coastwise service	Apr. 27	18	Surplus Navy gun factory moves company into wind tunnel business	May 18	26			
Sunray DX - solvent extraction unit to be built at Tulsa, Okla.	June 8	58	Thomas Publishing Co. - microfilmed equipment catalog	Apr. 13	92			
Surinam Aluminum Co. - bauxite to aluminum agreement with Billiton	May 11	26	Thompson Chemical Co. - agricultural plant being built at Washington, Mo.	June 15	26			
Susquehanna-Western Co. - ready to process uranium lignite in North and South Dakota	June 29	26	Vinyl resin capacity boost at Aberdeen, Miss.	June 8	59			
Union turned down at Riverton, Wyo.	May 4	56	Thompson-Ramo-Wooldridge - mobilized computer-control system	Feb. 9	67			
Uranium mill at Riverton taken over by Federal-Gas Hills Partners	Jan. 12	84						
Switzer Brothers - heat-stable fluorescent pigment	Jan. 19	65						
Sylvania Electric Products Inc. - Chemical & Metallurgical Div. - molybdenum alloy	Jan. 5	35						
Chemical and Metallurgical Div. - tungsten coating process	Jan. 26	83						

National Carbon Co. - soft packing material	June 15	51	United States Testing Co. - forms Nationwide Consumer Testing Institute	Feb. 2	64	propylene rubber	Apr. 13	69
Nuclear Co. - glass propping agent for hydraulic fracturing	June 22	49	United Technical Industries - investors charge misrepresentation of assets, know-how and balance sheet	May 18	21	Secondary stock offering planned	Feb. 2	24
Nuclear Co. - short-fiber asbestos plant being built at King City, Calif.	Feb. 2	26	Universal American Corp. - acquires 62% stock control of Boh Aluminum & Brass, 90% of stock of Von Kohom International	May 11	26	Warner Co. - merger complaint dismissed	June 1	54
Nuclear Co. - technetium separated from spent nuclear reactor fuels	Apr. 6	70	Universal Minerals & Metals Inc. - Monsanto takes over stewardship of Kansas City, Mo., powdered metals plant ... May 4-5	May 11	24	Warner-Lambert Pharmaceutical Co. - annual meeting	May 25	53
Nuclear Co. - wage hike	Jan. 12	83	Universal Oil Products - capital stock under selling pressure	Feb. 16	20	Pro-Phy-Lac-Tic Brush Co. sold to Standard Oil of Ohio	Feb. 16	25
Oak Ridge Gaseous Diffusion Plant - D.F. Smith discovers and identifies xenon trioxide	Apr. 20	75	Cumene process to be used by Clark Oil '62 report: earnings down; Japanese subsidiary gets okay; Molex biodegradable detergent process to be used in Germany	Jan. 19	51	Warmer-Chilcott Laboratories - antibiotic skin cream	June 1	108
Olefins Co. - acetylene-black plant to be built at Ashtabula, O.	Feb. 16	25	Trade secrets suit against Hydrocarbon Research	May 25	34	Warren, S.D. Co. - fluosilicon calcining process installed on trial basis	June 1	104
Paper coating latex	May 11	48	Trubet Laboratories and Catalytic Combustion Co., subsidiaries, consolidated as divisions	Mar. 9	22	Warren-Teed Products Co. - acquisition by Rohm & Haas	May 25	53
Plastics Co. - Bakelite vinyl coating resin, VAGD	June 22	74	Upjohn Co. - chemical expansions stressed at annual meeting	Feb. 2	26	Water Treatment Corp. - Mississippi Valley Barge Line acquires interest in firm, will advance funds for recapitalization	Feb. 23	45
Plastics Co. - cellular thermoplastic insulation patent	Jan. 19	62	Pre-emergence spray for grasses and weeds in tomato, pepper and tobacco crops	Apr. 27	52	Webb & Knapp - sells part of interest in Zeckendorf Property to Alcoa	May 25	56
Polyethylene unit being built at Hythe, Hampshire in Britain	May 4	63	Sales and earnings	Apr. 27	24	Weizmann Institute - transparent plastic	Apr. 6	69
Refrigerant gas-container deposits	Apr. 13	42	Uresco, Inc. - metal inspection unit	Feb. 23	93	West Chemical Products Inc. - acquires Bryant Pharmaceutical Co.	Mar. 16	26
Refrigerant gas lawsuit	June 1	24			West Virginia Pulp and Paper Co. - boosts chemical sales 15%	Jan. 5	24	
Styrene monomer plant to be built at Seadrift, Tex.	Jan. 19	20			Combines process development activities with the Covington Research Laboratory at Covington, Va.	June 1	128	
Thermal Dynamics files antitrust charges over plasma-arc torch business	Jan. 26	25			Coprecipitation of lignin particles with rubber	Mar. 2	58	
Vinyl film business sold to Cadillac Plastic & Chemical	Feb. 16	23			Western Ammonia Corp. - ammonia plant to be built at Dimmitt, Tex., Mar. 2-6, Apr. 6-23, June 1-14, July 1-14, Aug. 1-14, Sept. 1-14, Oct. 1-14, Nov. 1-14, Dec. 1-14	June 29	57	
Union Carbide of Canada - Cumming, A.A., discusses anti-Americanism issue	May 25	95			Western Electric Co. - develops continuous machine for vacuum deposition of thin film circuits	Apr. 20	76	
Integrates to polyethylene film converting stage, acquires Polyethylene Bag Mfg. Co.; moves into high-density polyethylene at Montreal East	June 22	62			Western Filling Corp. - Aerosol Techniques acquires outstanding stock	Mar. 30	25	
Phenol-formaldehyde expansion at Bellerville, Ont.	Jan. 5	17			Promises furniture polish trademark suit	Jan. 12	85	
Union Carbide International - markets imported NiX polymer in the U.K.	Feb. 16	26	Vanadium Corp. - chromium operations threatened by imports from Russia	Mar. 9	28	Western Industrial Equipment Co. - metal inspection unit		
Union Chimique Belge - fertilizer venture with Fisons at Ostend, Belgium	Jan. 12	83	Vanity Fair Paper Mills - Georgia-Pacific Corp. moves to acquire outstanding stock	Jan. 12	25	Western Natural Gas Co. - natural gas refund case settled	Feb. 23	93
Union Espanola de Explosivos - Royal Dutch/shell and Hoechst will join in petrochemicals project	Apr. 27	18	Varian Associates - central research laboratory being built at Palo Alto, Calif.	Mar. 2	48	Western Phosphates - phosphoric and ammonium phosphate expansion; bulk fertilizer distribution plan	Apr. 27	40
Union Generale des Petroles - petrochemical plant will be integrated with refinery at Lyon	Jan. 12	57	Crystal technology added to research activities at Palo Alto, Calif.	Mar. 9	87	Westinghouse Electric Corp. - Aerospace Electrical Div. develops thermolectric power system for spacecraft for Air Force	Apr. 6	27
Union Oil Co. of California - acquires complete control of Collier Carbon OCAW will accept 5% wage increase	May 4	24	Vami-Lite Corp. of America - Dan-De Products takes over national sales of epoxy coatings	Mar. 23	66	Claims highest-field superconducting magnet ever shipped	Feb. 23	116
Rubel, A. C., says Collier Carbon will bank on innovation to boost earnings	Jan. 12	83	Vegetable Oil Products Co. - Drew Chemical acquires majority interest	May 4	24	Cryopak compact, superconducting magnet system; 200-lb. superconducting magnet system	June 22	56
Union Tank Car Co. - builds 50,000-gal. tank car for ammonia and LPG	June 1	28	VelociChemicals - acquires more than 35% of Michigan Chemical	Jan. 12	18	Expandable polystyrene markets may get boost from new line of radio-frequency molding equipment	Mar. 23	78
Uni-Plant Corp. - new firm will provide gas-fired central heating and air-conditioning units for industrial plants	Apr. 13	73	Increases interest in Michigan Chemical	Mar. 23	17	Materials Manufacturing Div. - superconducting columbium-zirconium alloy	Apr. 27	71
United Carbon Co. - acquisition by Ashland Oil nears completion	Feb. 23	154	Weed killer for broadleaf weeds and annual grassy weeds	Jan. 19	51	Research Laboratories develops "world's most powerful continuous beam of light"	Mar. 9	55
Ashland oil stock offering to finance purchase of United	Mar. 2	18	Verenigd Plastic Verkoopkantoor N.V. - British firm acquires distribution rights for low-density polyethylene, Styamyl Verona Dyestuffs - propylene dyestuffs from Bayer	Apr. 20	54	Research Laboratories - finds carbon more fireproof than some refractory metals	May 25	66
Research and development center dedicated to lab and pilot-plant work on carbon black and synthetic polymers	Feb. 2	23	Vinatex Ltd. - Reichhold abandons plans to build plastics plant	May 4	69	Research Laboratories - magnetohydrodynamic generator has been coupled with a superconducting magnet	May 11	60
United-Carr Fastener Corp. - electrodeposition of metals onto molded plastic parts - new technique	Jan. 5	44	Vinyl Products Ltd. - Reichhold abandons plans to build plastics plant	Apr. 27	75	Scientific Equipment Dept. - oxygen gauge	Jan. 19	52
United-Dye & Chemical - stock fraud case - decision	Apr. 6	69	Virginia-Carolina Chemical - recapitalization plan - stockholder suit dismissed	Apr. 27	75	Superconducting magnet provides room-temperature magnetic field	June 1	107
United Electric Controls Co. - differential temperature control	Feb. 9	24	Virginia Institute for Scientific Research opens laboratory at Richmond	Mar. 9	18	Transformer-rectifier unit called Rectoformer	Jan. 5	45
United Gas Corp. - Escambia Chemical deal approved by SEC	May 11	47	Vitro Chemical - vanadium oxide from phosphate tailings venture	Jan. 16	23	Westing-Arc Div. - arc welder	Mar. 16	83
50% interest in Escambia Chemical may be sold to Electric Bond and Share	Apr. 13	19	Vitro Corp. - America - Navy contracts for missile work	Feb. 16	25	Westing-Arc Div. - industrial welders	Mar. 9	55
Holds 76% interest in Duval Corp.	Feb. 23	44	Processing uranium and vanadium ores alternately at Salt Lake City mill	June 1	30	Weyerhaeuser Co. - chemicals-wood research agreement with Dow	Mar. 4	70
United Merchants & Mfrs. - Valchem Chemical Div. - nonionic polyethylene emulsion	June 29	25	Vitro Minerals - Utah beryllium ore deposits dispute settled	Jan. 12	17	Expands Plymouth, N.C., plant	Feb. 9	62
Valchem - polyethylene emulsion	Apr. 27	55	Wyoming uranium properties transferred to Federal-Gas Hills Partners	June 1	30	Wheels, Inc. - auto and truck leasing for '62	June 29	25
United Nuclear - acquires Phillips' uranium properties; proposes consolidation of mines with Homestake Mining	Jan. 26	92	Von Kohom International Corp. - Indian affiliate will be converted into a public limited-liability company	Feb. 23	57	Schoen, Armund, reports on truck leasing	Jan. 19	38
United Nuclear - acquires Phillips' uranium properties; proposes consolidation of mines with Homestake Mining	Apr. 6	18	Universal American acquires 90% stock control	May 11	26	White Motor Co. - manufacturer-dealer contracts base	June 29	65
United Process Machinery - portable system makes foamed urethanes	June 8	47	Voss Industries Inc. - Kolonock Div. - rock dying process	May 25	44	Whitely Research Tool Co. - jacketed valves	Mar. 2	27
U.S. Borax - weed killers	Jan. 19	52	Vulcan Material Plastico - Grace and Vulcan acquire control of Vulcan; Vulcan and Elctor acquire 50% of Plavini	Feb. 2	46	Wiley - biological polymers journal	Mar. 2	41
U.S. Plywood - antitrust complaint by General Plywood	Mar. 23	24	Vulcan Materials Co. - buys up its preferred and common stock	Mar. 30	25	Wilmington Vitamin & Cosmetic Corp. - "fair trade" suit by Paul, Davis	June 23	110
U.S. Public Health Service - Division of Occupational Health - Scheel, Lester, discusses plastics hazards	June 1	42	Redeems preferred stock	Jan. 19	27	Wiltshire Oil Co. - hydrocracking process license from Gulf	Jan. 5	58
U.S. Radium Corp. - self-luminous markers called Isolite	May 25	44	Wintershall AG - Brazilian nitrophosphate fertilizer project	June 29	48			
U.S. Rubber Co. - acquires physical assets of Mercer Yam	Apr. 13	28	Wisconsin Alumni Research Foundation - prolargin rodenticide licensing agreement with Prentiss and Penick	June 22	26			
Antioxidant use in polymers	June 22	74	Wilson & George Meyer & Co. - planting tablet called Blue Chip	Apr. 20	84			
Argentine petrochemical project - guarantee deal	Mar. 2	28	Wilson Products - dust respirator	Apr. 27	52			
Bids for government's magnesium plant near Painesville, O.	June 15	26	Wilube Chemical Co. - acquired by Hamer Industries	Mar. 30	25			
Expanded Royallite, a foamed plastic, will vie with reinforced polyester plastics	May 11	24	Wintershall AG - Brazilian nitrophosphate fertilizer project	June 15	61			
Labor contract calls for joint-study committee	June 15	46	Wisconsin Alumni Research Foundation - prolargin rodenticide licensing agreement with Prentiss and Penick	Jan. 5	42			
Naugatuck Chemical - FDA approves Poly-gard stabilizer used in rubber and plastics	Mar. 9	61	Witco Chemical Co. - Argentine petrochemical project - guarantee deal	Mar. 2	28			
Polymer fiber dyeing technique	June 15	79	Corporate research department set up at Paterson, N.J.	Feb. 23	116			
Research findings provide new insight into properties of plastics	June 1	104	Expansions stressed at annual meeting	June 1	29			
Sales hit billion-dollar mark in '62	Jan. 26	18	Issues common stock to acquire Golden Bear Oil Co.	June 8	25			
Third U.S. producer of hydrazine	June 1	30	Negotiating for acquisition of Delta Chemicals	June 1	32			
U.S. Smelting, Refining & Mining Co. - faces proxy battle at annual meeting	Apr. 27	26	Shifts to the offensive via central lab	June 13	26			
Withdraws from project to upgrade Western coal to coke	Apr. 13	69	Worthington Corp. - Harrison Div. - Carter, A.E., discusses heat-exchange equipment prices	Feb. 16	48			
U.S. Steel - acquires 25% interest in Pittsburgh Chemical	Apr. 20	23	Leases Plainfield, N.J. site to Nuoco	Apr. 6	27			
Coke from noncoking coal project report	Mar. 9	61	Pasterilization process treats sewage effluent to make it potable	May 4	56			
Columbia-Geneva Steel Div. charges Japanese with dumping of steel sheet	Mar. 30	18	Wyandotte Chemicals - calcium chloride project at Wyandotte	Mar. 16	26			
			Chlorine-caustic unit to be built at Geismar, La.	Feb. 2	17			
			Mexican glycol and polyol venture - letter	Mar. 30	37			

Wyandotte Transportation Co. — government sues to recover costs for raising liquid chlorine tanks from Mississippi River.....	Jan.	19	26	Yacimientos Petroliferos Fiscales — supplies raw material for Koppers' polyethylene plant.....	Mar.	23	56	Zeckendorf Property Corp. — Webb & Knapp sells interest to Alcoa.....	May	25	56
Wyeth Laboratories — vitamin-deficient baby milk formula lawsuit settled.....	Jan.	12	85	Yardney Electric Corp. — Air Force contract to produce rechargeable batteries for torpedo power.....	Mar.	2	26	Zenith Vinyl Fabrics Corp. — vinyl film products antitrust suit against Ford.....	Apr.	13	27
Xerox Corp. — evaluates Pavelle's color photographic printing process.....	Feb.	16	47	York Corp. — meat-aging process.....	June	22	50	Zimmerman Machinery Co. — acquired by National Can Corp. ....	May	4	24
				Yorkshire Imperial Metals — plastics products venture with ICI.....	June	22	37	Zurn Industries, Inc. — Fluid Control Div. — pipeline strainer.....	Jan.	19	65
				Yosemite Chemical Co. — Spill-Away cleans up oil spills on water.....	May 18-63,	June	8	72			

